CARMONA RESOURCES

SITE INFORMATION

Closure Report
Lea Federal Unit 21H (04.05.2025)
Incident ID: NAPP2509571354
Lea County, New Mexico
Unit D Sec 12 T20S R34E
32.592400001°, -103.520217°

Crude Oil Release
Point of Release: Fluid burped out of the flare
Release Date: 04.05.2025
Volume Released: 21 Barrels of Crude Oil
Volume Recovered: 15 Barrels of Crude Oil

CARMONA RESOURCES

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

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

CARMONA RESOURCES

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

CARMONA RESOURCES

September 9, 2025

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

Re: Closure Report
Lea Federal Unit 21H (04.05.2025)
Incident ID: NAPP2509571354
Cimarex Energy Co.
Site Location: Unit D, S12, T20S, R34E
Lat 32.592400001°, Long -103.520217°
Lea County, New Mexico

Mr. Bratcher:

On behalf of Coterra Energy Operating Co. (Coterra, formerly known as Avant Operating, LLC), Carmona Resources, LLC has prepared this letter to document site assessment and remediation activities for the Lea Federal Unit 21H, The site is located at 32.592400001°, -103.520217° within Unit D, S12, T20S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on April 05, 2025, due to fluid burping out of the flare. It resulted in approximately twenty-one (21) barrels of crude oil to be released with approximately fifteen (15) barrels of crude oil recovered. The spill boundaries are shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest groundwater determination bore (GWDB) is located approximately 0.05 miles East of the site in S12, T20S, 34E, and was drilled in 2025. The GWDB was drilled to a depth of 105 feet below ground surface (ft bgs) and did not show evidence of groundwater present after 72 hours. A copy of the summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

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4.0 Site Assessment Activities

Initial Assessment

On May 12, 2025, Carmona Resources LLC, performed site assessment activities to evaluate soil impacts stemming from the release. A total of six (6) trenching samples (S-1 through S-6) and six (6) horizontal samples were installed to total depths ranging from surface to 5.0 ft bgs inside 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 laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and Chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

5.0 Remediation Activities

On June 5, 2025, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on May 29, 2025, Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-5 was excavated to a depth of 1.5'bgs. A total of one (1) confirmation floor sample (CS-1) was collected, 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. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

All final confirmation samples were below regulatory requirements for TPH, BTEX, and Chloride concentrations. The excavation depths and confirmation sample locations are shown in Figures 4.

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 120 square feet of contamination was remediated, resulting in 8 cubic yards of material excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the assessment and analytical data from the remediation, no further actions are required at the site. Cimarex formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-8988.

Sincerely,
Carmona Resources, LLC

Ashton Thielke
Environmental Manager

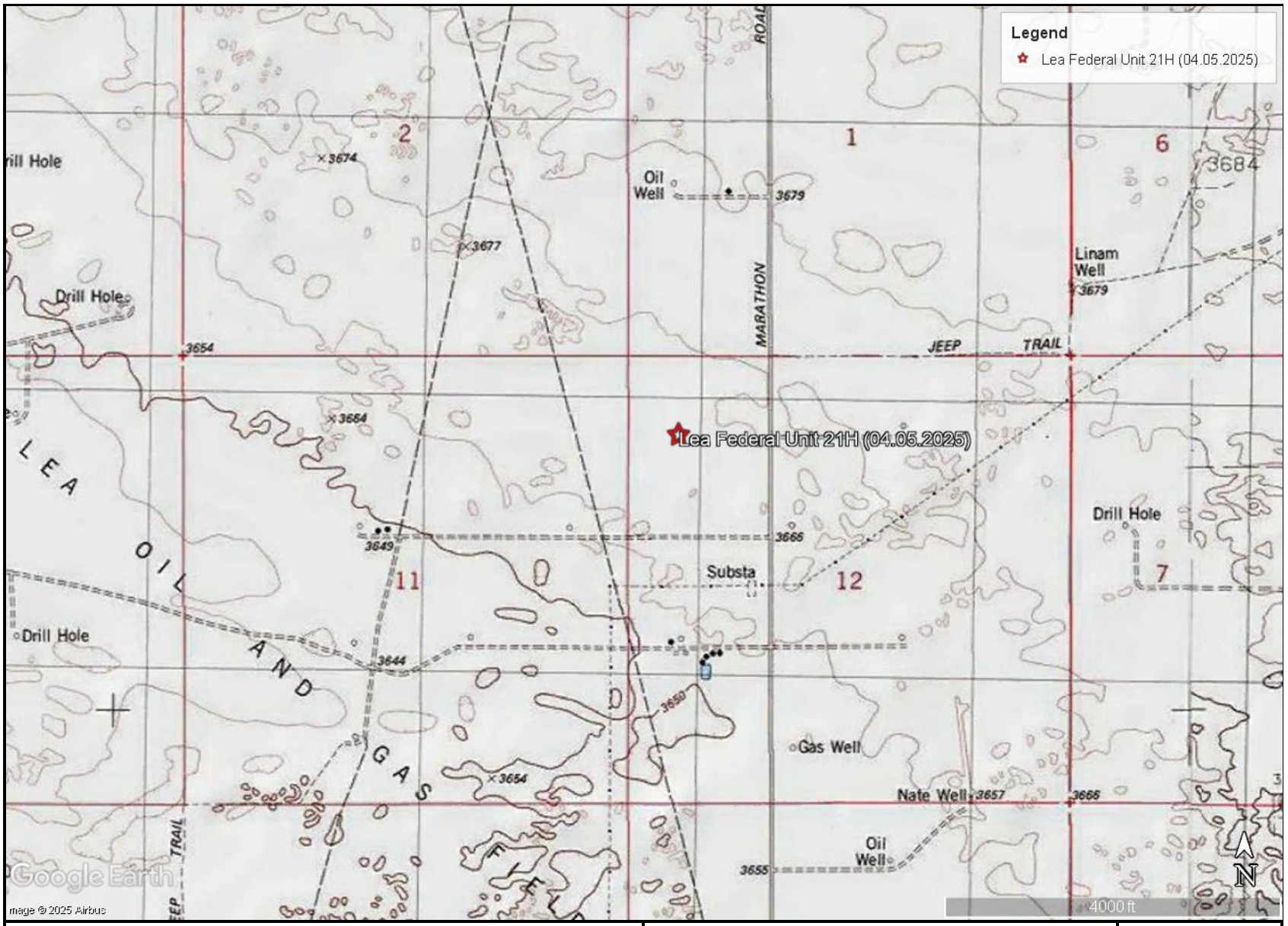
Gilbert Priego
Project Manager

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

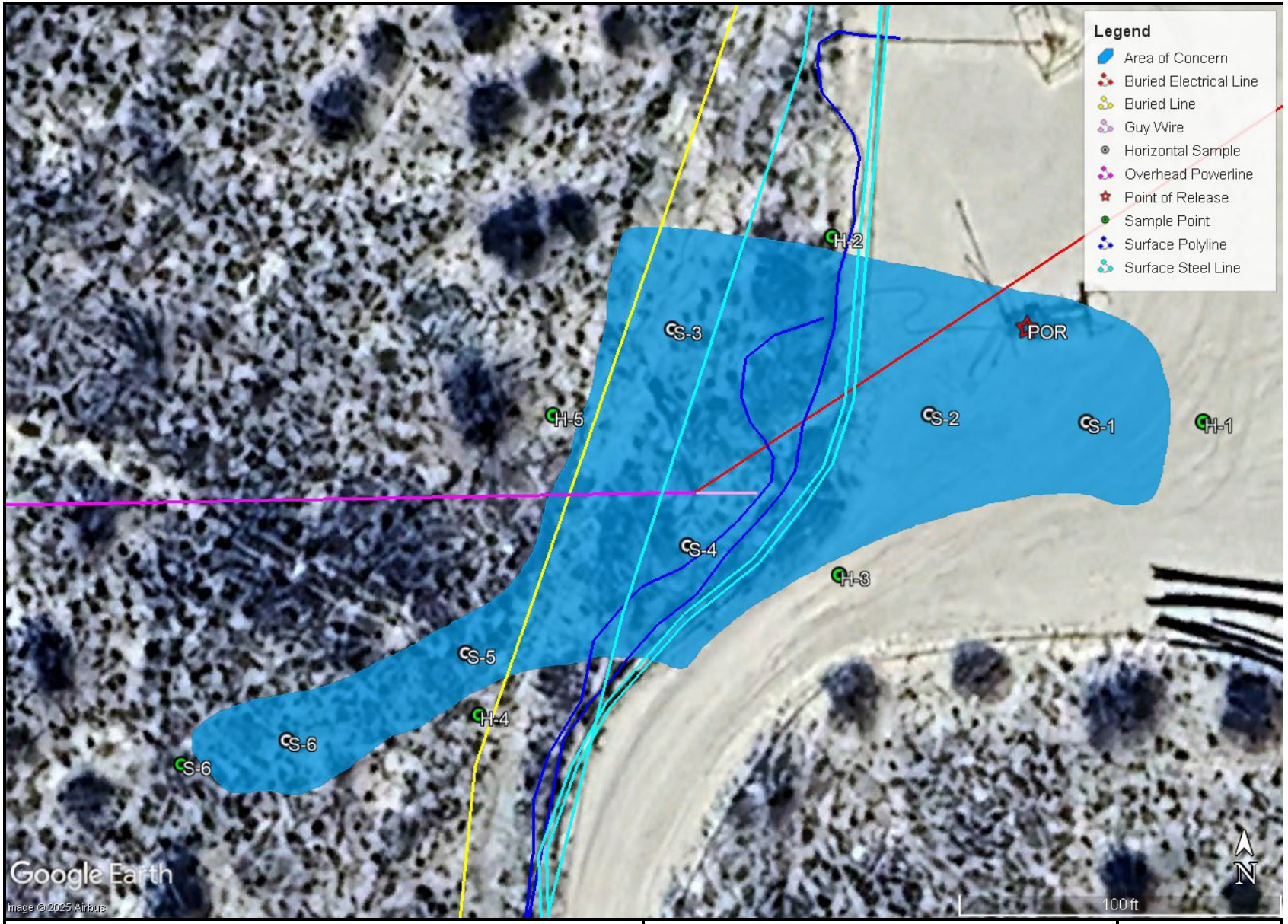
FIGURES

CARMONA RESOURCES

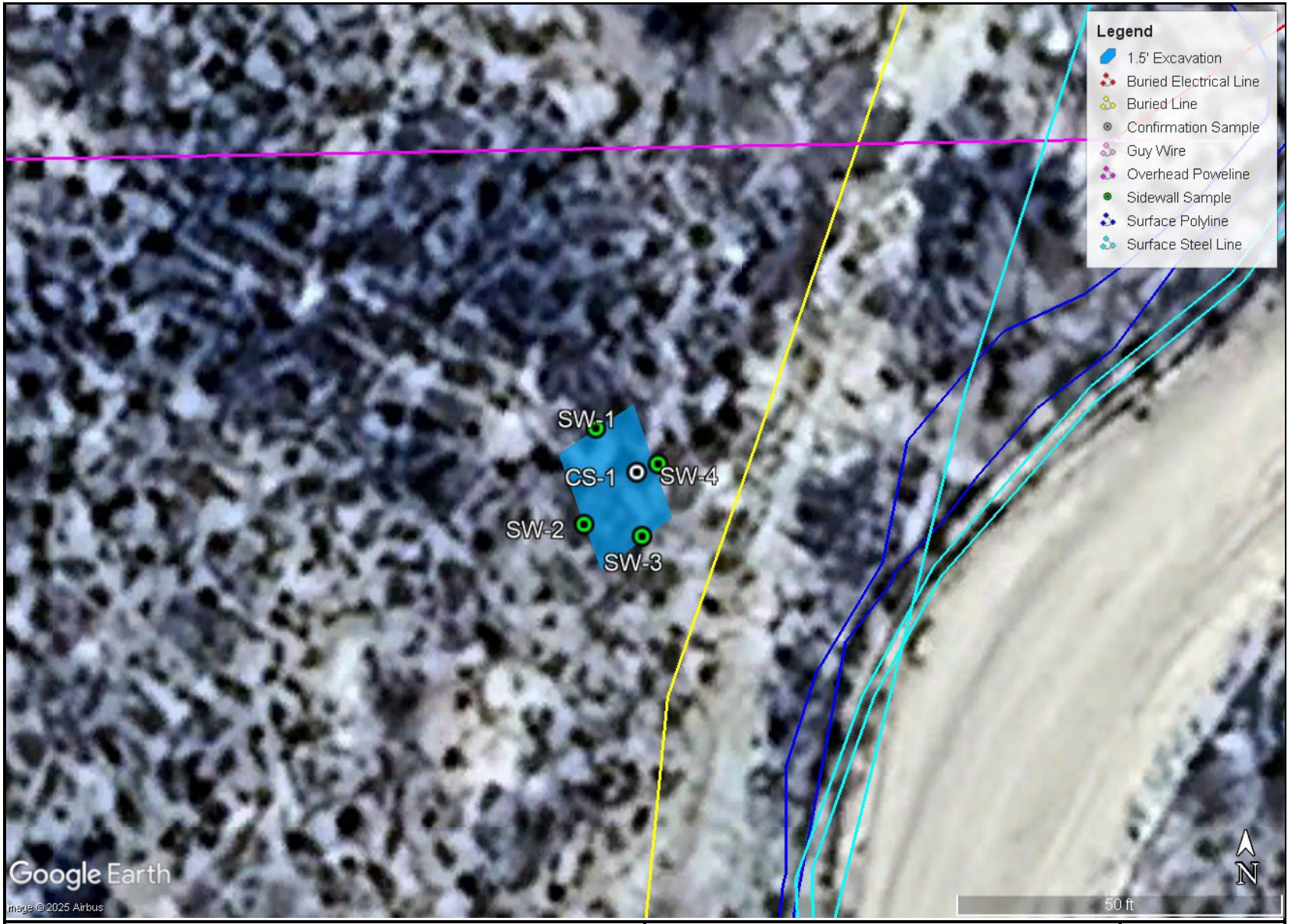
OVERVIEW MAP COTERRA ENERGY OPERATING CO. LEA FEDERAL UNIT 21H (04.05.2025) LEA COUNTY, NEW MEXICO 32.592400001°, -103.520217°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP COTERRA ENERGY OPERATING CO. LEA FEDERAL UNIT 21H (04.05.2025) LEA COUNTY, NEW MEXICO 32.592400001°, -103.520217°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COTERRA ENERGY OPERATING CO. LEA FEDERAL UNIT 21H (04.05.2025) LEA COUNTY, NEW MEXICO 32.592400001°, -103.520217°	CARMONA RESOURCES	FIGURE 3



EXCAVATION DEPTH MAP COTERRA ENERGY OPERATING CO. LEA FEDERAL UNIT 21H (04.05.2025) LEA COUNTY, NEW MEXICO 32.592400001°, -103.520217°	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES

Table 1
Coterra Energy Operating Co.
Lea Federal Unit 21H (04.05.2025)
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						
Areas located on the Well Pad												
S-1	5/12/2025	0-1.0'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,450
	"	1.5'	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	118
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	119
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	99.3
	"	4.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	129
S-2	5/12/2025	0-1.0'	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	250
	"	1.5'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	11.3
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	75.1
	"	3.0'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.0
	"	4.0'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	109
Area located in the Pasture												
S-3	5/12/2025	0-0.5'	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	147
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	102
	"	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	78.8
	"	3.0'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	80.6
	"	4.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	82.7
S-4	5/12/2025	0-1.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	140
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	112
	"	2.0'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	94.1
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	86.7
	"	4.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	98.8
S-5	5/12/2025	0-1.0'	217	**1,980**	<49.9	**2,200**	<0.00199	0.114	0.0182	0.0929	0.225	287
	"	1.5'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	356
	"	2.0'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	253
	"	3.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	346
	"	4.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	390
	"	5.0'	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	239
S-6	5/12/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	101
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	112
	"	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	137
	"	3.0'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	110
	"	4.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	91.4
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
S - Soil Sample
Removed

Table 1
Coterra Energy Operating Co.
Lea Federal Unit 21H (04.05.2025)
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						
H-1	5/12/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	0.118	0.118	90.8
H-2	5/12/2025	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	300
H-3	5/12/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	93.1
H-4	5/12/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	82.9
H-5	5/12/2025	0-0.5'	<50.1	89.9	<50.1	89.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	96.5
H-6	5/12/2025	0-0.5'	<50.2	79.9	<50.2	79.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	89.7
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 Federal Unit 21H (04.05.2025)
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						
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	48.0
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	32.0
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	64.0
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	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	97.7
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
(CS) - Confirmation Sample
(SW) - Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Coterra Energy Operating Co.

Photograph No. 1

Facility: Lea Federal Unit 21H (04.05.2025)

County: Lea County, New Mexico

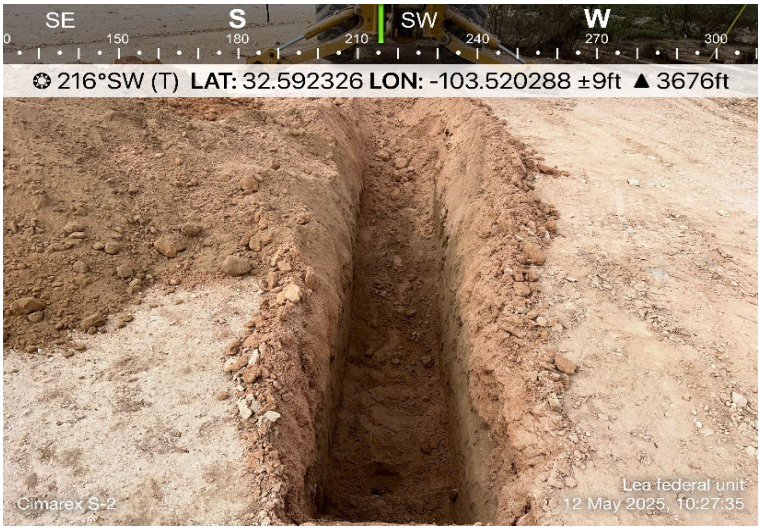
Description:
View North, area of S-1.

Photograph No. 2

Facility: Lea Federal Unit 21H (04.05.2025)

County: Lea County, New Mexico

Description:
View Southwest, area of S-2.



Photograph No. 3

Facility: Lea Federal Unit 21H (04.05.2025)

County: Lea County, New Mexico

Description:
View North, area of S-3.

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Coterra Energy Operating Co.

Photograph No. 4

Facility: Lea Federal Unit 21H (04.05.2025)

County: Lea County, New Mexico

Description:
View Northeast, area of S-4.

Photograph No. 5

Facility: Lea Federal Unit 21H (04.05.2025)

County: Lea County, New Mexico

Description:
View Northeast, area of S-5.

Photograph No. 6

Facility: Lea Federal Unit 21H (04.05.2025)

County: Lea County, New Mexico

Description:
View North, area of S-6.

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Coterra Energy Operating Co.

Photograph No. 7

Facility: Lea Federal Unit 21H (04.05.2025)

County: Lea County, New Mexico

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

Photograph No. 8

Facility: Lea Federal Unit 21H (04.05.2025)

County: Lea County, New Mexico

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

CARMONA RESOURCES

APPENDIX C

CARMONA RESOURCES

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 469004

QUESTIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 469004
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2509571354**
Incident Name	**NAPP2509571354 LEA FEDERAL UNIT 21H @ 0**
Incident Type	**Oil Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**Lea Federal Unit 21H**
Date Release Discovered	**04/05/2025**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	4,500
What is the estimated number of samples that will be gathered	26
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	(32.592400001,-103.520217) 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
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 469004

CONDITIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 469004
	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.	5/29/2025

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

Coterra Energy Operating Co.

Legend

- 0.05 Miles
- 0.50 Mile Radius
- Groundwater Determination Bore
- Lea Federal Unit 21H (04.05.2025)

105' GWDB - Drilled 2025

Lea Federal Unit 21H (04.05.2025)

Google Earth

N

2000 ft

Low Karst

Coterra Energy Operating Co.

Legend

Lea Federal Unit 21H (04.05.2025)

Low

Lea Federal Unit 21H (04.05.2025)

Google Earth

N

2000 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
CP 00654 POD1		CP	LE		SE	SE	12	20S	34E	640103.0	3605947.0 *		1662	60		
L 04157		L	LE		SW	SW	06	20S	35E	640483.0	3607561.0 *		1676	70	64	6
CP 00655 POD1		CP	LE		SW	NW	14	20S	34E	637294.0	3605108.0 *		2523	210		
CP 01672 POD1		CP	LE	NW	SW	NW	36	19S	34E	638735.9	3610009.6		2940	100		
CP 00656 POD1		CP	LE	SE	SE	SE	04	20S	34E	635342.0	3607391.0 *		3551	225		
CP 00800 POD1		CP	LE	NE	NE	NE	22	20S	34E	637007.0	3603994.0 *		3602	220		
CP 00683 POD1		CP	LE	SW	SW	SE	25	19S	34E	639530.0	3610685.0 *		3670	120	28	92

Average Depth to Water: **46 feet**

Minimum Depth: **28 feet**

Maximum Depth: **64 feet**

Record Count: 7

UTM Filters (in meters):

Easting: 638878.83

Northing: 3607072.24

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

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FOR OSE INTERNAL USE			
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 Federal Unit 21H (04.05.2025)

5/2/2025

World_Hillshade

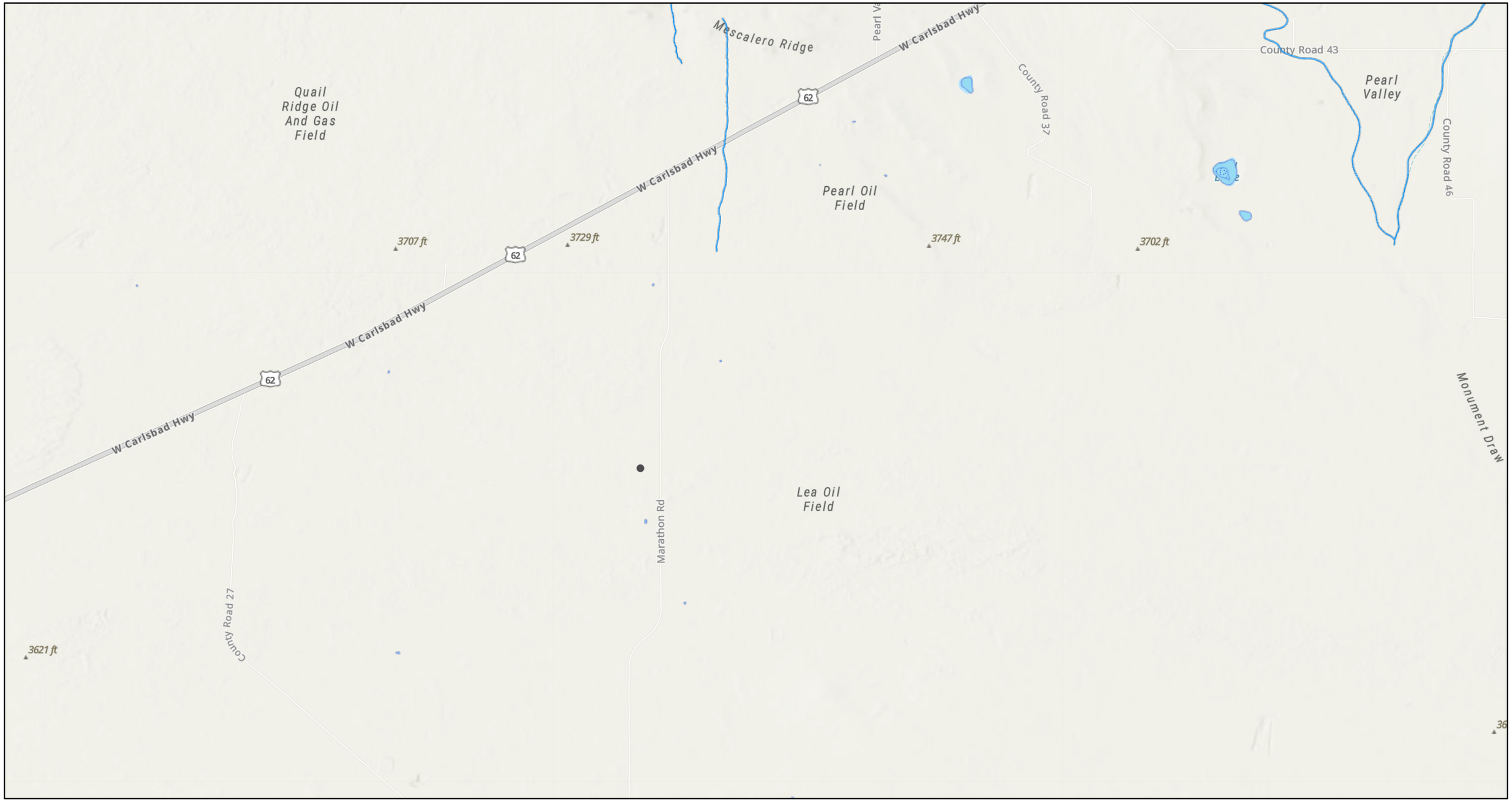
1:144,448

0 1 2 4 mi

0 1.5 3 6 km

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

Lea Federal Unit 21H (04.05.2025)



5/2/2025, 7:43:04 AM

OSW Water Bodys

OSE Probable Playas

OSE Streams

1:72,224

0 0.75 1.5 3 mi

0 1.25 2.5 5 km

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

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 5/22/2025 9:52:44 AM Revision 1

JOB DESCRIPTION

Lea Federal Unit 21H
Lea County, New Mexico

JOB NUMBER

880-58112-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

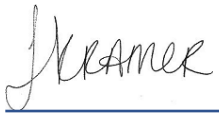
Eurofins Midland

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
5/22/2025 9:52:44 AM
Revision 1

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: 880-58112-1
SDG: Lea County, New Mexico

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Definitions/Glossary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Lea Federal Unit 21H

Job ID: 880-58112-1

Job ID: 880-58112-1 Eurofins Midland

Job Narrative
880-58112-1

REVISION

The report being provided is a revision of the original report sent on 5/16/2025. The report (revision 1) is being revised due to Per client email, requesting sample ID name correction.

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 laboratory control sample (LCS) associated with preparation batch 880-110128 and analytical batch 880-110089 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-5 (0-1.0') (880-58112-21). 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.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110115 and analytical batch 880-110185 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-110185 recovered above the upper control limit for MTBE. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-110185/33).

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110111 and analytical batch 880-110103 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-6 (2.0') (880-58112-29), S-6

Case Narrative

Client: Carmona Resources
Project: Lea Federal Unit 21H

Job ID: 880-58112-1

Job ID: 880-58112-1 (Continued) Eurofins Midland

(3.0') (880-58112-30), S-6 (4.0') (880-58112-31) and (880-58112-A-29-C MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-110116 and analytical batch 880-110221 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110125 and analytical batch 880-110219 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 (1.5') (880-58112-7), S-2 (2.0') (880-58112-8), S-2 (3.0') (880-58112-9), S-2 (4.0') (880-58112-10), S-3 (0-1.0') (880-58112-11), S-3 (1.5') (880-58112-12), S-3 (2.0') (880-58112-13), S-3 (3.0') (880-58112-14), S-3 (4.0') (880-58112-15), S-4 (0-1.0') (880-58112-16), (880-58112-A-7-D MS) and (880-58112-A-7-E 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 Federal Unit 21H

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58112-1
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/15/25 20:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 20:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 20:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 20:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 20:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 18:00*	*05/15/25 20:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/14/25 18:00*	*05/15/25 20:02*	*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 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/14/25 23:03	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 23:03	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/14/25 23:03	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/14/25 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*80*		*70 - 130*	*05/14/25 10:55*	*05/14/25 23:03*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*05/14/25 10:55*	*05/14/25 23:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2450**		49.6		mg/Kg			05/15/25 14:34	5

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-58112-2
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/15/25 20:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 20:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 20:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/15/25 20:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 20:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/15/25 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/14/25 18:00*	*05/15/25 20:23*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*05/14/25 18:00*	*05/15/25 20:23*	*1*

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/25 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/14/25 23:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/14/25 10:55	05/14/25 23:19	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/14/25 10:55	05/14/25 23:19	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/14/25 10:55	05/14/25 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*05/14/25 10:55*	*05/14/25 23:19*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*05/14/25 10:55*	*05/14/25 23:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		10.0		mg/Kg			05/15/25 14:41	1

Client Sample ID: S-1 (2.0')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-3
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 18:00	05/15/25 20:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 20:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 20:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/15/25 20:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 20:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/15/25 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/14/25 18:00*	*05/15/25 20:43*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/14/25 18:00*	*05/15/25 20:43*	*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 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/14/25 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 23:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 23:35	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*05/14/25 10:55*	*05/14/25 23:35*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*05/14/25 10:55*	*05/14/25 23:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		10.1		mg/Kg			05/15/25 14:47	1

Client Sample ID: S-1 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-4
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		05/14/25 18:00	05/15/25 21:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/15/25 21:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/15/25 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/14/25 18:00*	*05/15/25 21:03*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/14/25 18:00*	*05/15/25 21:03*	*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 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/14/25 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/14/25 23:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/14/25 23:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/14/25 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*05/14/25 10:55*	*05/14/25 23:51*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*05/14/25 10:55*	*05/14/25 23:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.3**		10.0		mg/Kg			05/15/25 14:54	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (4.0')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/14/25 18:00	05/15/25 21:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/14/25 18:00	05/15/25 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 18:00*	*05/15/25 21:24*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/14/25 18:00*	*05/15/25 21:24*	*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 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/25 00:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/15/25 00:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/15/25 00:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/15/25 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*05/14/25 10:55*	*05/15/25 00:07*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*05/14/25 10:55*	*05/15/25 00:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		10.0		mg/Kg			05/15/25 15:01	1

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

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-6
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 18:00	05/15/25 21:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 21:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 21:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 21:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 21:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 18:00*	*05/15/25 21:44*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*05/14/25 18:00*	*05/15/25 21:44*	*1*

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58112-6
Matrix: Solid
Date Collected: 05/12/25 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	<0.00398	U	0.00398		mg/Kg			05/15/25 21:44	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 00:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/14/25 10:55	05/15/25 00:23	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/14/25 10:55	05/15/25 00:23	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/14/25 10:55	05/15/25 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*05/14/25 10:55*	*05/15/25 00:23*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*05/14/25 10:55*	*05/15/25 00:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		10.1		mg/Kg			05/15/25 15:08	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-58112-7
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/15/25 22:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 22:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:05*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 22:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/15/25 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/15/25 00:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/15/25 00:39	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-58112-7
Matrix: Solid
Date Collected: 05/12/25 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)	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/15/25 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*05/14/25 10:55*	*05/15/25 00:39*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*05/14/25 10:55*	*05/15/25 00:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.3**	**F1**	9.92		mg/Kg			05/15/25 12:50	1

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-58112-8
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/15/25 22:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 22:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 22:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/15/25 22:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 22:25	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/15/25 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:25*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/15/25 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/25 00:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/15/25 00:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/15/25 00:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/15/25 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*05/14/25 10:55*	*05/15/25 00:55*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*05/14/25 10:55*	*05/15/25 00:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.1**		10.0		mg/Kg			05/15/25 13:06	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-58112-9
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/15/25 22:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 22:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:46*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/15/25 03:05	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 F1	50.1		mg/Kg		05/14/25 11:00	05/15/25 03:05	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 03:05	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*05/14/25 11:00*	*05/15/25 03:05*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*05/14/25 11:00*	*05/15/25 03:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.0**		9.96		mg/Kg			05/15/25 13:11	1

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-58112-10
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/15/25 23:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/15/25 23:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/15/25 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 18:00*	*05/15/25 23:06*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 18:00*	*05/15/25 23:06*	*1*

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-58112-10
Matrix: Solid
Date Collected: 05/12/25 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 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/15/25 03:53	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 11:00	05/15/25 03:53	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 03:53	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*05/14/25 11:00*	*05/15/25 03:53*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*05/14/25 11:00*	*05/15/25 03:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		9.98		mg/Kg			05/15/25 13:16	1

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

Lab Sample ID: 880-58112-11
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/15/25 22:04	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		05/14/25 18:00	05/15/25 22:04	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		05/14/25 18:00	05/15/25 22:04	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399		mg/Kg		05/14/25 18:00	05/15/25 22:04	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		05/14/25 18:00	05/15/25 22:04	1
Xylenes, Total	<0.00399	U F2 F1	0.00399		mg/Kg		05/14/25 18:00	05/15/25 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:04*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:04*	*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 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		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	<50.2	U	50.2		mg/Kg		05/14/25 11:00	05/15/25 04:10	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/14/25 11:00	05/15/25 04:10	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58112-11
Matrix: Solid
Date Collected: 05/12/25 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)	<50.2	U	50.2		mg/Kg		05/14/25 11:00	05/15/25 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*05/14/25 11:00*	*05/15/25 04:10*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*05/14/25 11:00*	*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	**147**		10.0		mg/Kg			05/15/25 13:22	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-58112-12
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/15/25 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 22:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/15/25 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 22:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/15/25 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:25*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/25 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			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	<49.9	U	49.9		mg/Kg		05/14/25 11:00	05/15/25 04:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/14/25 11:00	05/15/25 04:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/25 11:00	05/15/25 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*05/14/25 11:00*	*05/15/25 04:26*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*05/14/25 11:00*	*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	**102**		10.1		mg/Kg			05/15/25 13:37	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2.0')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-13
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 18:00	05/15/25 22:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 22:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 22:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:45*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/14/25 18:00*	*05/15/25 22:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		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	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 04:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 04:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*05/14/25 11:00*	*05/15/25 04:44*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*05/14/25 11:00*	*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	**78.8**		10.1		mg/Kg			05/15/25 13:42	1

Client Sample ID: S-3 (3.0')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-14
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 18:00	05/15/25 23:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/15/25 23:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/15/25 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/14/25 18:00*	*05/15/25 23:06*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/14/25 18:00*	*05/15/25 23:06*	*1*

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (3.0')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/15/25 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		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	<49.7	U	49.7		mg/Kg		05/14/25 11:00	05/15/25 05:00	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 11:00	05/15/25 05:00	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 11:00	05/15/25 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/14/25 11:00*	*05/15/25 05:00*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*05/14/25 11:00*	*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	**80.6**		10.1		mg/Kg			05/15/25 13:48	1

Client Sample ID: S-3 (4.0')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-15
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 18:00	05/15/25 23:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 23:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 23:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 23:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/15/25 23:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/15/25 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/14/25 18:00*	*05/15/25 23:27*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*05/14/25 18:00*	*05/15/25 23:27*	*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 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		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	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 05:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 05:17	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-15
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 11:00	05/15/25 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*05/14/25 11:00*	*05/15/25 05:17*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*05/14/25 11:00*	*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	**82.7**		10.0		mg/Kg			05/15/25 13:53	1

Client Sample ID: S-4 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-16
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 18:00	05/15/25 23:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:47	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/14/25 18:00	05/15/25 23:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/15/25 23:47	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/14/25 18:00	05/15/25 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/14/25 18:00*	*05/15/25 23:47*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/14/25 18:00*	*05/15/25 23:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/15/25 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			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	<50.0	U	50.0		mg/Kg		05/14/25 11:00	05/15/25 05:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 11:00	05/15/25 05:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 11:00	05/15/25 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/14/25 11:00*	*05/15/25 05:32*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*05/14/25 11:00*	*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	**140**		9.96		mg/Kg			05/15/25 13:58	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-58112-17
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/16/25 00:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/14/25 18:00	05/16/25 00:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/14/25 18:00	05/16/25 00:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/14/25 18:00	05/16/25 00:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/14/25 18:00	05/16/25 00:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/14/25 18:00	05/16/25 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/14/25 18:00*	*05/16/25 00:08*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 18:00*	*05/16/25 00:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/16/25 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		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	<50.0	U	50.0		mg/Kg		05/14/25 11:00	05/15/25 05:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 11:00	05/15/25 05:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 11:00	05/15/25 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*05/14/25 11:00*	*05/15/25 05:49*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*05/14/25 11:00*	*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	**112**		10.1		mg/Kg			05/15/25 14:03	1

Client Sample ID: S-4 (2.0')

Lab Sample ID: 880-58112-18
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/16/25 00:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 00:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 00:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/16/25 00:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 00:28	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/16/25 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/14/25 18:00*	*05/16/25 00:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 18:00*	*05/16/25 00:28*	*1*

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/16/25 00:28	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 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	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 06:05	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 06:05	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*05/14/25 11:00*	*05/15/25 06:05*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*05/14/25 11:00*	*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	**94.1**		9.94		mg/Kg			05/15/25 14:19	1

Client Sample ID: S-4 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-19
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 18:00	05/16/25 00:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 00:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 00:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/16/25 00:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 00:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/16/25 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/14/25 18:00*	*05/16/25 00:49*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 18:00*	*05/16/25 00:49*	*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			05/16/25 00:49	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 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	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 06:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 06:37	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-19
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)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*05/14/25 11:00*	*05/15/25 06:37*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*05/14/25 11:00*	*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	**86.7**		9.92		mg/Kg			05/15/25 14:24	1

Client Sample ID: S-4 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-20
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		05/14/25 18:00	05/16/25 01:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 01:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 01:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/16/25 01:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 01:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/16/25 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/14/25 18:00*	*05/16/25 01:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/14/25 18:00*	*05/16/25 01:09*	*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			05/16/25 01:09	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 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	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 06:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 06:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*05/14/25 11:00*	*05/15/25 06:54*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*05/14/25 11:00*	*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	**98.8**		10.0		mg/Kg			05/15/25 14:39	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58112-21
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/16/25 02:33	1
Toluene	**0.114**		0.00199		mg/Kg		05/14/25 18:00	05/16/25 02:33	1
Ethylbenzene	**0.0182**		0.00199		mg/Kg		05/14/25 18:00	05/16/25 02:33	1
m-Xylene & p-Xylene	**0.0596**		0.00398		mg/Kg		05/14/25 18:00	05/16/25 02:33	1
o-Xylene	**0.0333**		0.00199		mg/Kg		05/14/25 18:00	05/16/25 02:33	1
Xylenes, Total	**0.0929**		0.00398		mg/Kg		05/14/25 18:00	05/16/25 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*397*	*S1+*	*70 - 130*	*05/14/25 18:00*	*05/16/25 02:33*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/14/25 18:00*	*05/16/25 02:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.225**		0.00398		mg/Kg			05/16/25 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2200**		49.9		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	**217**		49.9		mg/Kg		05/14/25 11:00	05/15/25 07:10	1
Diesel Range Organics (Over C10-C28)	**1980**		49.9		mg/Kg		05/14/25 11:00	05/15/25 07:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/25 11:00	05/15/25 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*05/14/25 11:00*	*05/15/25 07:10*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*05/14/25 11:00*	*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	**287**		10.0		mg/Kg			05/15/25 14:45	1

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-58112-22
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/16/25 02:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 02:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 02:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/16/25 02:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 02:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/16/25 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/14/25 18:00*	*05/16/25 02:54*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/14/25 18:00*	*05/16/25 02:54*	*1*

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-22
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			05/16/25 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		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	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 07:27	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 07:27	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*05/14/25 11:00*	*05/15/25 07:27*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*05/14/25 11:00*	*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	**356**		10.1		mg/Kg			05/15/25 14:50	1

Client Sample ID: S-5 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-23
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 18:00	05/16/25 03:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 03:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 03:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/16/25 03:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 03:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/16/25 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/14/25 18:00*	*05/16/25 03:14*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/14/25 18:00*	*05/16/25 03:14*	*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			05/16/25 03:14	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 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	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 07:42	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 07:42	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-23
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)	<50.1	U	50.1		mg/Kg		05/14/25 11:00	05/15/25 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*05/14/25 11:00*	*05/15/25 07:42*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*05/14/25 11:00*	*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	**253**		9.96		mg/Kg			05/15/25 14:55	1

Client Sample ID: S-5 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-24
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 03:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 03:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 03:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/16/25 03:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 03:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 18:00	05/16/25 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/14/25 18:00*	*05/16/25 03:35*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/14/25 18:00*	*05/16/25 03:35*	*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			05/16/25 03:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		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	<49.7	U	49.7		mg/Kg		05/14/25 11:00	05/15/25 08:00	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 11:00	05/15/25 08:00	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 11:00	05/15/25 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*05/14/25 11:00*	*05/15/25 08:00*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*05/14/25 11:00*	*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	**346**		10.1		mg/Kg			05/15/25 15:00	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-25
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		05/14/25 18:00	05/16/25 03:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 03:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 03:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/14/25 18:00	05/16/25 03:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/16/25 03:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/14/25 18:00	05/16/25 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/14/25 18:00*	*05/16/25 03:55*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*05/14/25 18:00*	*05/16/25 03:55*	*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			05/16/25 03:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			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 11:00	05/15/25 08:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 08:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 11:00	05/15/25 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*05/14/25 11:00*	*05/15/25 08:15*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*05/14/25 11:00*	*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	**390**		9.94		mg/Kg			05/15/25 15:05	1

Client Sample ID: S-5 (5.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-26
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 18:00	05/16/25 04:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 04:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 04:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/16/25 04:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 04:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/16/25 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/14/25 18:00*	*05/16/25 04:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/14/25 18:00*	*05/16/25 04:16*	*1*

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (5.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-26
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/16/25 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			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	<50.2	U	50.2		mg/Kg		05/14/25 11:00	05/15/25 08:33	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/14/25 11:00	05/15/25 08:33	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/14/25 11:00	05/15/25 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/14/25 11:00*	*05/15/25 08:33*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*05/14/25 11:00*	*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	**239**		9.92		mg/Kg			05/15/25 15:10	1

Client Sample ID: S-6 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-27
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 18:00	05/16/25 04:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 04:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 04:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/16/25 04:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 04:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/16/25 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/14/25 18:00*	*05/16/25 04:36*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/14/25 18:00*	*05/16/25 04:36*	*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			05/16/25 04:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		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	<50.0	U	50.0		mg/Kg		05/14/25 11:00	05/15/25 08:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 11:00	05/15/25 08:49	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (0-1.0')

Lab Sample ID: 880-58112-27
Matrix: Solid
Date Collected: 05/12/25 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 11:00	05/15/25 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/14/25 11:00*	*05/15/25 08:49*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*05/14/25 11:00*	*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	**101**		9.96		mg/Kg			05/14/25 17:45	1

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-58112-28
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/16/25 04:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 04:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 04:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/16/25 04:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 04:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/16/25 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/14/25 18:00*	*05/16/25 04:57*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 18:00*	*05/16/25 04:57*	*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			05/16/25 04:57	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 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	<49.9	U	49.9		mg/Kg		05/14/25 11:00	05/15/25 09:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/14/25 11:00	05/15/25 09:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/25 11:00	05/15/25 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*05/14/25 11:00*	*05/15/25 09:05*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*05/14/25 11:00*	*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	**112**		9.90		mg/Kg			05/14/25 17:51	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (2.0')

Lab Sample ID: 880-58112-29
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/16/25 05:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 05:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 05:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/16/25 05:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 18:00	05/16/25 05:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 18:00	05/16/25 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/14/25 18:00*	*05/16/25 05:18*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/14/25 18:00*	*05/16/25 05:18*	*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			05/16/25 05:18	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 12:01	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 11:12	05/15/25 12:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 11:12	05/15/25 12:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 11:12	05/15/25 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*05/14/25 11:12*	*05/15/25 12:01*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*05/14/25 11:12*	*05/15/25 12:01*	*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			05/14/25 17:58	1

Client Sample ID: S-6 (3.0')

Lab Sample ID: 880-58112-30
Matrix: Solid
Date Collected: 05/12/25 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 18:00	05/16/25 05:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 05:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 05:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/16/25 05:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 18:00	05/16/25 05:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 18:00	05/16/25 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/14/25 18:00*	*05/16/25 05:38*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/14/25 18:00*	*05/16/25 05:38*	*1*

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-30
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/16/25 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/15/25 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/14/25 11:12	05/15/25 15:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 11:12	05/15/25 15:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 11:12	05/15/25 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*	*05/14/25 11:12*	*05/15/25 15:14*	*1*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*	*05/14/25 11:12*	*05/15/25 15:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		9.90		mg/Kg			05/14/25 18:05	1

Client Sample ID: S-6 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 05:04	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		05/14/25 18:00	05/15/25 05:04	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		05/14/25 18:00	05/15/25 05:04	1
m-Xylene & p-Xylene	<0.00401	U *-	0.00401		mg/Kg		05/14/25 18:00	05/15/25 05:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 05:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/14/25 18:00	05/15/25 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/14/25 18:00*	*05/15/25 05:04*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 18:00*	*05/15/25 05:04*	*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 05:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/15/25 15:29	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 11:12	05/15/25 15:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 11:12	05/15/25 15:29	1

Client Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (4.0')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-31

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)	<49.7	U	49.7		mg/Kg		05/14/25 11:12	05/15/25 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*	*05/14/25 11:12*	*05/15/25 15:29*	*1*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*	*05/14/25 11:12*	*05/15/25 15:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.4**		9.92		mg/Kg			05/14/25 18:12	1

Surrogate Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-58110-A-1-C MS	Matrix Spike	103	105
880-58110-A-1-D MSD	Matrix Spike Duplicate	105	108
880-58111-A-21-B MS	Matrix Spike	88	107
880-58111-A-21-C MSD	Matrix Spike Duplicate	95	110
880-58112-1	S-1 (0-1.0')	97	105
880-58112-2	S-1 (1.5')	93	108
880-58112-3	S-1 (2.0')	91	99
880-58112-4	S-1 (3.0')	91	99
880-58112-5	S-1 (4.0')	98	105
880-58112-6	S-2 (0-1.0')	98	108
880-58112-7	S-2 (1.5')	96	102
880-58112-8	S-2 (2.0')	101	100
880-58112-9	S-2 (3.0')	89	105
880-58112-10	S-2 (4.0')	97	110
880-58112-11	S-3 (0-1.0')	85	95
880-58112-11 MS	S-3 (0-1.0')	93	80
880-58112-11 MSD	S-3 (0-1.0')	103	88
880-58112-12	S-3 (1.5')	95	100
880-58112-13	S-3 (2.0')	92	99
880-58112-14	S-3 (3.0')	89	92
880-58112-15	S-3 (4.0')	106	89
880-58112-16	S-4 (0-1.0')	90	84
880-58112-17	S-4 (1.5')	90	98
880-58112-18	S-4 (2.0')	96	97
880-58112-19	S-4 (3.0')	89	98
880-58112-20	S-4 (4.0')	90	94
880-58112-21	S-5 (0-1.0')	397 S1+	102
880-58112-22	S-5 (1.5')	91	85
880-58112-23	S-5 (2.0')	95	86
880-58112-24	S-5 (3.0')	90	90
880-58112-25	S-5 (4.0')	95	77
880-58112-26	S-5 (5.0')	90	94
880-58112-27	S-6 (0-1.0')	91	95
880-58112-28	S-6 (1.5')	93	98
880-58112-29	S-6 (2.0')	94	100
880-58112-30	S-6 (3.0')	91	94
880-58112-31	S-6 (4.0')	92	97
LCS 880-110113/1-A	Lab Control Sample	81	106
LCS 880-110115/1-A	Lab Control Sample	107	113
LCS 880-110128/1-A	Lab Control Sample	106	102
LCSD 880-110113/2-A	Lab Control Sample Dup	92	112
LCSD 880-110115/2-A	Lab Control Sample Dup	113	99
LCSD 880-110128/2-A	Lab Control Sample Dup	104	99
MB 880-110097/5-A	Method Blank	88	94
MB 880-110113/5-A	Method Blank	71	121
MB 880-110115/5-A	Method Blank	93	98
MB 880-110128/5-A	Method Blank	85	90
MB 880-110188/5-A	Method Blank	90	98

Surrogate Legend

Surrogate Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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)
880-58111-A-19-B MS	Matrix Spike	100	99
880-58111-A-19-C MSD	Matrix Spike Duplicate	101	99
880-58112-1	S-1 (0-1.0')	80	83
880-58112-2	S-1 (1.5')	83	83
880-58112-3	S-1 (2.0')	84	82
880-58112-4	S-1 (3.0')	86	83
880-58112-5	S-1 (4.0')	89	85
880-58112-6	S-2 (0-1.0')	85	87
880-58112-7	S-2 (1.5')	86	83
880-58112-8	S-2 (2.0')	83	78
880-58112-9	S-2 (3.0')	92	85
880-58112-9 MS	S-2 (3.0')	84	87
880-58112-9 MSD	S-2 (3.0')	97	86
880-58112-10	S-2 (4.0')	89	85
880-58112-11	S-3 (0-1.0')	94	89
880-58112-12	S-3 (1.5')	92	91
880-58112-13	S-3 (2.0')	87	85
880-58112-14	S-3 (3.0')	90	84
880-58112-15	S-3 (4.0')	89	85
880-58112-16	S-4 (0-1.0')	90	93
880-58112-17	S-4 (1.5')	96	90
880-58112-18	S-4 (2.0')	104	102
880-58112-19	S-4 (3.0')	86	84
880-58112-20	S-4 (4.0')	89	86
880-58112-21	S-5 (0-1.0')	94	115
880-58112-22	S-5 (1.5')	92	91
880-58112-23	S-5 (2.0')	92	93
880-58112-24	S-5 (3.0')	96	96
880-58112-25	S-5 (4.0')	95	95
880-58112-26	S-5 (5.0')	90	93
880-58112-27	S-6 (0-1.0')	90	89
880-58112-28	S-6 (1.5')	88	89
880-58112-29	S-6 (2.0')	133 S1+	136 S1+
880-58112-29 MS	S-6 (2.0')	136 S1+	133 S1+
880-58112-29 MSD	S-6 (2.0')	118	118
880-58112-30	S-6 (3.0')	131 S1+	134 S1+
880-58112-31	S-6 (4.0')	131 S1+	133 S1+
LCS 880-110110/2-A	Lab Control Sample	141 S1+	133 S1+
LCS 880-110111/2-A	Lab Control Sample	96	98
LCS 880-110116/2-A	Lab Control Sample	113	113
LCSD 880-110110/3-A	Lab Control Sample Dup	140 S1+	133 S1+
LCSD 880-110111/3-A	Lab Control Sample Dup	113	98
LCSD 880-110116/3-A	Lab Control Sample Dup	97	98
MB 880-110110/1-A	Method Blank	106	96
MB 880-110111/1-A	Method Blank	90	89
MB 880-110116/1-A	Method Blank	98	99

Surrogate Legend

Surrogate Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110097/5-A
Matrix: Solid
Analysis Batch: 110089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 08:43	05/14/25 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 08:43	05/14/25 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 08:43	05/14/25 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/14/25 08:43	05/14/25 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 08:43	05/14/25 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/14/25 08:43	05/14/25 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/14/25 08:43*	*05/14/25 11:10*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/14/25 08:43*	*05/14/25 11:10*	*1*

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
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
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

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

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
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-A-21-B MS
Matrix: Solid
Analysis Batch: 110227

Client Sample ID: Matrix Spike
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

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

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

Client Sample ID: Matrix Spike Duplicate
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*

Lab Sample ID: MB 880-110115/5-A
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 18:00	05/15/25 21:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/14/25 18:00	05/15/25 21:43	1

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-110115/5-A
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110115

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 18:00	05/15/25 21:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/14/25 18:00	05/15/25 21:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/14/25 18:00*	*05/15/25 21:43*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 18:00*	*05/15/25 21:43*	*1*

Lab Sample ID: LCS 880-110115/1-A
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08646		mg/Kg		86	70 - 130
Toluene	0.100	0.08370		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.09436		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1818		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08979		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-110115/2-A
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110115

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09524		mg/Kg		95	70 - 130	10	35
Toluene	0.100	0.08671		mg/Kg		87	70 - 130	4	35
Ethylbenzene	0.100	0.08809		mg/Kg		88	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2049		mg/Kg		102	70 - 130	12	35
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-58112-11 MS
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: S-3 (0-1.0')
Prep Type: Total/NA
Prep Batch: 110115

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.100	0.05476	F1	mg/Kg		55	70 - 130
Toluene	<0.00200	U F2 F1	0.100	0.05229	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00200	U F2 F1	0.100	0.04397	F1	mg/Kg		44	70 - 130
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.08532	F1	mg/Kg		43	70 - 130
o-Xylene	<0.00200	U F2 F1	0.100	0.04761	F1	mg/Kg		48	70 - 130

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58112-11 MS
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: S-3 (0-1.0')
Prep Type: Total/NA
Prep Batch: 110115

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 880-58112-11 MSD
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: S-3 (0-1.0')
Prep Type: Total/NA
Prep Batch: 110115

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	0.04443	F1	mg/Kg		44	70 - 130	21	35
Toluene	<0.00200	U F2 F1	0.100	0.03047	F2 F1	mg/Kg		30	70 - 130	53	35
Ethylbenzene	<0.00200	U F2 F1	0.100	0.01663	F2 F1	mg/Kg		17	70 - 130	90	35
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.03260	F2 F1	mg/Kg		16	70 - 130	89	35
o-Xylene	<0.00200	U F2 F1	0.100	0.02262	F2 F1	mg/Kg		23	70 - 130	71	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-110128/5-A
Matrix: Solid
Analysis Batch: 110089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:47	05/14/25 21:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:47	05/14/25 21:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:47	05/14/25 21:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/14/25 11:47	05/14/25 21:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:47	05/14/25 21:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/14/25 11:47	05/14/25 21:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	05/14/25 11:47	05/14/25 21:50	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/14/25 11:47	05/14/25 21:50	1

Lab Sample ID: LCS 880-110128/1-A
Matrix: Solid
Analysis Batch: 110089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110128

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07097		mg/Kg		71	70 - 130		
Toluene			0.100	0.06565	*-	mg/Kg		66	70 - 130		
Ethylbenzene			0.100	0.06730	*-	mg/Kg		67	70 - 130		
m-Xylene & p-Xylene			0.200	0.1329	*-	mg/Kg		66	70 - 130		
o-Xylene			0.100	0.07694		mg/Kg		77	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-110128/1-A
Matrix: Solid
Analysis Batch: 110089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-110128/2-A
Matrix: Solid
Analysis Batch: 110089

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110128

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07362		mg/Kg		74	70 - 130	4	35
Toluene			0.100	0.06767	*-	mg/Kg		68	70 - 130	3	35
Ethylbenzene			0.100	0.07145		mg/Kg		71	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1538		mg/Kg		77	70 - 130	15	35
o-Xylene			0.100	0.07728		mg/Kg		77	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-58110-A-1-C MS
Matrix: Solid
Analysis Batch: 110089

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08590		mg/Kg		86	70 - 130		
Toluene	<0.00200	U *-	0.100	0.07666		mg/Kg		77	70 - 130		
Ethylbenzene	<0.00200	U *-	0.100	0.07871		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene	<0.00399	U *-	0.200	0.1400		mg/Kg		70	70 - 130		
o-Xylene	<0.00200	U	0.100	0.07135		mg/Kg		71	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-58110-A-1-D MSD
Matrix: Solid
Analysis Batch: 110089

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110128

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	0.08218		mg/Kg		82	70 - 130	4	35
Toluene	<0.00200	U *-	0.100	0.07310		mg/Kg		73	70 - 130	5	35
Ethylbenzene	<0.00200	U *-	0.100	0.08133		mg/Kg		81	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U *-	0.200	0.1410		mg/Kg		71	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.07215		mg/Kg		72	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-110188/5-A
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/15/25 08:29	05/15/25 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/15/25 08:29*	*05/15/25 11:05*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/15/25 08:29*	*05/15/25 11:05*	*1*

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

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

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

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-110110/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110103 — **Prep Batch: 110110**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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-A-19-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110103 — **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*

Lab Sample ID: 880-58111-A-19-C MSD — **Client Sample ID: Matrix Spike Duplicate**
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*

Lab Sample ID: MB 880-110111/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110103 — **Prep Batch: 110111**

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 10:59	05/15/25 02:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:59	05/15/25 02:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:59	05/15/25 02:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/14/25 10:59*	*05/15/25 02:16*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*05/14/25 10:59*	*05/15/25 02:16*	*1*

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-110111/2-A
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110111

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	793.6		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	822.0		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*96*		*70 - 130*
o-Terphenyl (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-110111/3-A
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110111

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	764.6		mg/Kg		76	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	785.5		mg/Kg		79	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*113*		*70 - 130*
o-Terphenyl (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-58112-9 MS
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: S-2 (3.0')
Prep Type: Total/NA
Prep Batch: 110111

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 F1	999	698.0		mg/Kg		70	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	999	813.5		mg/Kg		81	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*84*		*70 - 130*
o-Terphenyl (Surr)	*87*		*70 - 130*

Lab Sample ID: 880-58112-9 MSD
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: S-2 (3.0')
Prep Type: Total/NA
Prep Batch: 110111

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 F1	999	633.3	F1	mg/Kg		63	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<50.1	U	999	754.9		mg/Kg		76	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*97*		*70 - 130*

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58112-9 MSD
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: S-2 (3.0')
Prep Type: Total/NA
Prep Batch: 110111

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	86		70 - 130

Lab Sample ID: MB 880-110116/1-A
Matrix: Solid
Analysis Batch: 110221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110116

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 11:12	05/15/25 07:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 11:12	05/15/25 07:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 11:12	05/15/25 07:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	05/14/25 11:12	05/15/25 07:47	1
o-Terphenyl (Surr)	99		70 - 130	05/14/25 11:12	05/15/25 07:47	1

Lab Sample ID: LCS 880-110116/2-A
Matrix: Solid
Analysis Batch: 110221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110116

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	965.7		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1051		mg/Kg		105	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-110116/3-A
Matrix: Solid
Analysis Batch: 110221

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	823.1		mg/Kg		82	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	896.5		mg/Kg		90	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	98		70 - 130

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58112-29 MS
Matrix: Solid
Analysis Batch: 110221

Client Sample ID: S-6 (2.0')
Prep Type: Total/NA
Prep Batch: 110116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1000	973.6		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	1000	924.1		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*

Lab Sample ID: 880-58112-29 MSD
Matrix: Solid
Analysis Batch: 110221

Client Sample ID: S-6 (2.0')
Prep Type: Total/NA
Prep Batch: 110116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1000	853.3		mg/Kg		85	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.7	U	1000	807.4		mg/Kg		79	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*118*		*70 - 130*
o-Terphenyl (Surr)	*118*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110118/1-A
Matrix: Solid
Analysis Batch: 110138

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			05/14/25 14:48	1

Lab Sample ID: LCS 880-110118/2-A
Matrix: Solid
Analysis Batch: 110138

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.2		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-110118/3-A
Matrix: Solid
Analysis Batch: 110138

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	258.0		mg/Kg		103	90 - 110	0	20

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8151-A-1-D MS
Matrix: Solid
Analysis Batch: 110138

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	537		249	806.7		mg/Kg		108	90 - 110

Lab Sample ID: 890-8151-A-1-E MSD
Matrix: Solid
Analysis Batch: 110138

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	537		249	794.6		mg/Kg		103	90 - 110	2	20

Lab Sample ID: MB 880-110124/1-A
Matrix: Solid
Analysis Batch: 110199

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 11:44	1

Lab Sample ID: LCS 880-110124/2-A
Matrix: Solid
Analysis Batch: 110199

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.7		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-110124/3-A
Matrix: Solid
Analysis Batch: 110199

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	253.0		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-58103-A-2-C MS
Matrix: Solid
Analysis Batch: 110199

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	126		252	398.3		mg/Kg		108	90 - 110

Lab Sample ID: 880-58103-A-2-D MSD
Matrix: Solid
Analysis Batch: 110199

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	126		252	401.3		mg/Kg		109	90 - 110	1	20

Lab Sample ID: MB 880-110125/1-A
Matrix: Solid
Analysis Batch: 110219

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 12:35	1

QC Sample Results

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-110125/2-A
Matrix: Solid
Analysis Batch: 110219

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.1		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-110125/3-A
Matrix: Solid
Analysis Batch: 110219

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	242.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-58112-7 MS
Matrix: Solid
Analysis Batch: 110219

Client Sample ID: S-2 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11.3	F1	248	375.1	F1	mg/Kg		147	90 - 110		

Lab Sample ID: 880-58112-7 MSD
Matrix: Solid
Analysis Batch: 110219

Client Sample ID: S-2 (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	11.3	F1	248	376.6	F1	mg/Kg		147	90 - 110	0	20

Lab Sample ID: 880-58112-17 MS
Matrix: Solid
Analysis Batch: 110219

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	112		253	384.3		mg/Kg		108	90 - 110		

Lab Sample ID: 880-58112-17 MSD
Matrix: Solid
Analysis Batch: 110219

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	112		253	384.6		mg/Kg		108	90 - 110	0	20

QC Association Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 110089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-31	S-6 (4.0')	Total/NA	Solid	8021B	110128
MB 880-110097/5-A	Method Blank	Total/NA	Solid	8021B	110097
MB 880-110128/5-A	Method Blank	Total/NA	Solid	8021B	110128
LCS 880-110128/1-A	Lab Control Sample	Total/NA	Solid	8021B	110128
LCSD 880-110128/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110128
880-58110-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	110128
880-58110-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110128

Prep Batch: 110097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-110097/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 110113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-1	S-1 (0-1.0')	Total/NA	Solid	5035	
880-58112-2	S-1 (1.5')	Total/NA	Solid	5035	
880-58112-3	S-1 (2.0')	Total/NA	Solid	5035	
880-58112-4	S-1 (3.0')	Total/NA	Solid	5035	
880-58112-5	S-1 (4.0')	Total/NA	Solid	5035	
880-58112-6	S-2 (0-1.0')	Total/NA	Solid	5035	
880-58112-7	S-2 (1.5')	Total/NA	Solid	5035	
880-58112-8	S-2 (2.0')	Total/NA	Solid	5035	
880-58112-9	S-2 (3.0')	Total/NA	Solid	5035	
880-58112-10	S-2 (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-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
880-58111-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 110115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-11	S-3 (0-1.0')	Total/NA	Solid	5035	
880-58112-12	S-3 (1.5')	Total/NA	Solid	5035	
880-58112-13	S-3 (2.0')	Total/NA	Solid	5035	
880-58112-14	S-3 (3.0')	Total/NA	Solid	5035	
880-58112-15	S-3 (4.0')	Total/NA	Solid	5035	
880-58112-16	S-4 (0-1.0')	Total/NA	Solid	5035	
880-58112-17	S-4 (1.5')	Total/NA	Solid	5035	
880-58112-18	S-4 (2.0')	Total/NA	Solid	5035	
880-58112-19	S-4 (3.0')	Total/NA	Solid	5035	
880-58112-20	S-4 (4.0')	Total/NA	Solid	5035	
880-58112-21	S-5 (0-1.0')	Total/NA	Solid	5035	
880-58112-22	S-5 (1.5')	Total/NA	Solid	5035	
880-58112-23	S-5 (2.0')	Total/NA	Solid	5035	
880-58112-24	S-5 (3.0')	Total/NA	Solid	5035	
880-58112-25	S-5 (4.0')	Total/NA	Solid	5035	
880-58112-26	S-5 (5.0')	Total/NA	Solid	5035	
880-58112-27	S-6 (0-1.0')	Total/NA	Solid	5035	
880-58112-28	S-6 (1.5')	Total/NA	Solid	5035	
880-58112-29	S-6 (2.0')	Total/NA	Solid	5035	

QC Association Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 110115 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-30	S-6 (3.0')	Total/NA	Solid	5035	
MB 880-110115/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110115/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110115/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58112-11 MS	S-3 (0-1.0')	Total/NA	Solid	5035	
880-58112-11 MSD	S-3 (0-1.0')	Total/NA	Solid	5035	

Prep Batch: 110128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-31	S-6 (4.0')	Total/NA	Solid	5035	
MB 880-110128/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110128/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110128/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58110-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-58110-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 110185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-11	S-3 (0-1.0')	Total/NA	Solid	8021B	110115
880-58112-12	S-3 (1.5')	Total/NA	Solid	8021B	110115
880-58112-13	S-3 (2.0')	Total/NA	Solid	8021B	110115
880-58112-14	S-3 (3.0')	Total/NA	Solid	8021B	110115
880-58112-15	S-3 (4.0')	Total/NA	Solid	8021B	110115
880-58112-16	S-4 (0-1.0')	Total/NA	Solid	8021B	110115
880-58112-17	S-4 (1.5')	Total/NA	Solid	8021B	110115
880-58112-18	S-4 (2.0')	Total/NA	Solid	8021B	110115
880-58112-19	S-4 (3.0')	Total/NA	Solid	8021B	110115
880-58112-20	S-4 (4.0')	Total/NA	Solid	8021B	110115
880-58112-21	S-5 (0-1.0')	Total/NA	Solid	8021B	110115
880-58112-22	S-5 (1.5')	Total/NA	Solid	8021B	110115
880-58112-23	S-5 (2.0')	Total/NA	Solid	8021B	110115
880-58112-24	S-5 (3.0')	Total/NA	Solid	8021B	110115
880-58112-25	S-5 (4.0')	Total/NA	Solid	8021B	110115
880-58112-26	S-5 (5.0')	Total/NA	Solid	8021B	110115
880-58112-27	S-6 (0-1.0')	Total/NA	Solid	8021B	110115
880-58112-28	S-6 (1.5')	Total/NA	Solid	8021B	110115
880-58112-29	S-6 (2.0')	Total/NA	Solid	8021B	110115
880-58112-30	S-6 (3.0')	Total/NA	Solid	8021B	110115
MB 880-110115/5-A	Method Blank	Total/NA	Solid	8021B	110115
MB 880-110188/5-A	Method Blank	Total/NA	Solid	8021B	110188
LCS 880-110115/1-A	Lab Control Sample	Total/NA	Solid	8021B	110115
LCSD 880-110115/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110115
880-58112-11 MS	S-3 (0-1.0')	Total/NA	Solid	8021B	110115
880-58112-11 MSD	S-3 (0-1.0')	Total/NA	Solid	8021B	110115

Prep Batch: 110188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-110188/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 110207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-1	S-1 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58112-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-58112-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-58112-4	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-58112-5	S-1 (4.0')	Total/NA	Solid	Total BTEX	
880-58112-6	S-2 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58112-7	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-58112-8	S-2 (2.0')	Total/NA	Solid	Total BTEX	
880-58112-9	S-2 (3.0')	Total/NA	Solid	Total BTEX	
880-58112-10	S-2 (4.0')	Total/NA	Solid	Total BTEX	
880-58112-11	S-3 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58112-12	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-58112-13	S-3 (2.0')	Total/NA	Solid	Total BTEX	
880-58112-14	S-3 (3.0')	Total/NA	Solid	Total BTEX	
880-58112-15	S-3 (4.0')	Total/NA	Solid	Total BTEX	
880-58112-16	S-4 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58112-17	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-58112-18	S-4 (2.0')	Total/NA	Solid	Total BTEX	
880-58112-19	S-4 (3.0')	Total/NA	Solid	Total BTEX	
880-58112-20	S-4 (4.0')	Total/NA	Solid	Total BTEX	
880-58112-21	S-5 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58112-22	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-58112-23	S-5 (2.0')	Total/NA	Solid	Total BTEX	
880-58112-24	S-5 (3.0')	Total/NA	Solid	Total BTEX	
880-58112-25	S-5 (4.0')	Total/NA	Solid	Total BTEX	
880-58112-26	S-5 (5.0')	Total/NA	Solid	Total BTEX	
880-58112-27	S-6 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58112-28	S-6 (1.5')	Total/NA	Solid	Total BTEX	
880-58112-29	S-6 (2.0')	Total/NA	Solid	Total BTEX	
880-58112-30	S-6 (3.0')	Total/NA	Solid	Total BTEX	
880-58112-31	S-6 (4.0')	Total/NA	Solid	Total BTEX	

Analysis Batch: 110227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-1	S-1 (0-1.0')	Total/NA	Solid	8021B	110113
880-58112-2	S-1 (1.5')	Total/NA	Solid	8021B	110113
880-58112-3	S-1 (2.0')	Total/NA	Solid	8021B	110113
880-58112-4	S-1 (3.0')	Total/NA	Solid	8021B	110113
880-58112-5	S-1 (4.0')	Total/NA	Solid	8021B	110113
880-58112-6	S-2 (0-1.0')	Total/NA	Solid	8021B	110113
880-58112-7	S-2 (1.5')	Total/NA	Solid	8021B	110113
880-58112-8	S-2 (2.0')	Total/NA	Solid	8021B	110113
880-58112-9	S-2 (3.0')	Total/NA	Solid	8021B	110113
880-58112-10	S-2 (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-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	110113
880-58111-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110113

QC Association Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 110103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-1	S-1 (0-1.0')	Total/NA	Solid	8015B NM	110110
880-58112-2	S-1 (1.5')	Total/NA	Solid	8015B NM	110110
880-58112-3	S-1 (2.0')	Total/NA	Solid	8015B NM	110110
880-58112-4	S-1 (3.0')	Total/NA	Solid	8015B NM	110110
880-58112-5	S-1 (4.0')	Total/NA	Solid	8015B NM	110110
880-58112-6	S-2 (0-1.0')	Total/NA	Solid	8015B NM	110110
880-58112-7	S-2 (1.5')	Total/NA	Solid	8015B NM	110110
880-58112-8	S-2 (2.0')	Total/NA	Solid	8015B NM	110110
880-58112-9	S-2 (3.0')	Total/NA	Solid	8015B NM	110111
880-58112-10	S-2 (4.0')	Total/NA	Solid	8015B NM	110111
880-58112-11	S-3 (0-1.0')	Total/NA	Solid	8015B NM	110111
880-58112-12	S-3 (1.5')	Total/NA	Solid	8015B NM	110111
880-58112-13	S-3 (2.0')	Total/NA	Solid	8015B NM	110111
880-58112-14	S-3 (3.0')	Total/NA	Solid	8015B NM	110111
880-58112-15	S-3 (4.0')	Total/NA	Solid	8015B NM	110111
880-58112-16	S-4 (0-1.0')	Total/NA	Solid	8015B NM	110111
880-58112-17	S-4 (1.5')	Total/NA	Solid	8015B NM	110111
880-58112-18	S-4 (2.0')	Total/NA	Solid	8015B NM	110111
880-58112-19	S-4 (3.0')	Total/NA	Solid	8015B NM	110111
880-58112-20	S-4 (4.0')	Total/NA	Solid	8015B NM	110111
880-58112-21	S-5 (0-1.0')	Total/NA	Solid	8015B NM	110111
880-58112-22	S-5 (1.5')	Total/NA	Solid	8015B NM	110111
880-58112-23	S-5 (2.0')	Total/NA	Solid	8015B NM	110111
880-58112-24	S-5 (3.0')	Total/NA	Solid	8015B NM	110111
880-58112-25	S-5 (4.0')	Total/NA	Solid	8015B NM	110111
880-58112-26	S-5 (5.0')	Total/NA	Solid	8015B NM	110111
880-58112-27	S-6 (0-1.0')	Total/NA	Solid	8015B NM	110111
880-58112-28	S-6 (1.5')	Total/NA	Solid	8015B NM	110111
MB 880-110110/1-A	Method Blank	Total/NA	Solid	8015B NM	110110
MB 880-110111/1-A	Method Blank	Total/NA	Solid	8015B NM	110111
LCS 880-110110/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110110
LCS 880-110111/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110111
LCSD 880-110110/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110110
LCSD 880-110111/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110111
880-58111-A-19-B MS	Matrix Spike	Total/NA	Solid	8015B NM	110110
880-58111-A-19-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110110
880-58112-9 MS	S-2 (3.0')	Total/NA	Solid	8015B NM	110111
880-58112-9 MSD	S-2 (3.0')	Total/NA	Solid	8015B NM	110111

Prep Batch: 110110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-1	S-1 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58112-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-58112-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-58112-4	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-58112-5	S-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-58112-6	S-2 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58112-7	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-58112-8	S-2 (2.0')	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	

QC Association Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 110110 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-110110/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58111-A-19-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-58111-A-19-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 110111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-9	S-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-58112-10	S-2 (4.0')	Total/NA	Solid	8015NM Prep	
880-58112-11	S-3 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58112-12	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-58112-13	S-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-58112-14	S-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-58112-15	S-3 (4.0')	Total/NA	Solid	8015NM Prep	
880-58112-16	S-4 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58112-17	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-58112-18	S-4 (2.0')	Total/NA	Solid	8015NM Prep	
880-58112-19	S-4 (3.0')	Total/NA	Solid	8015NM Prep	
880-58112-20	S-4 (4.0')	Total/NA	Solid	8015NM Prep	
880-58112-21	S-5 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58112-22	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-58112-23	S-5 (2.0')	Total/NA	Solid	8015NM Prep	
880-58112-24	S-5 (3.0')	Total/NA	Solid	8015NM Prep	
880-58112-25	S-5 (4.0')	Total/NA	Solid	8015NM Prep	
880-58112-26	S-5 (5.0')	Total/NA	Solid	8015NM Prep	
880-58112-27	S-6 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58112-28	S-6 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-110111/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110111/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110111/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58112-9 MS	S-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-58112-9 MSD	S-2 (3.0')	Total/NA	Solid	8015NM Prep	

Prep Batch: 110116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-29	S-6 (2.0')	Total/NA	Solid	8015NM Prep	
880-58112-30	S-6 (3.0')	Total/NA	Solid	8015NM Prep	
880-58112-31	S-6 (4.0')	Total/NA	Solid	8015NM Prep	
MB 880-110116/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110116/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110116/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58112-29 MS	S-6 (2.0')	Total/NA	Solid	8015NM Prep	
880-58112-29 MSD	S-6 (2.0')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-29	S-6 (2.0')	Total/NA	Solid	8015B NM	110116
880-58112-30	S-6 (3.0')	Total/NA	Solid	8015B NM	110116
880-58112-31	S-6 (4.0')	Total/NA	Solid	8015B NM	110116
MB 880-110116/1-A	Method Blank	Total/NA	Solid	8015B NM	110116
LCS 880-110116/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110116
LCSD 880-110116/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110116

QC Association Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 110221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-29 MS	S-6 (2.0')	Total/NA	Solid	8015B NM	110116
880-58112-29 MSD	S-6 (2.0')	Total/NA	Solid	8015B NM	110116

Analysis Batch: 110233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-1	S-1 (0-1.0')	Total/NA	Solid	8015 NM	
880-58112-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-58112-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-58112-4	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-58112-5	S-1 (4.0')	Total/NA	Solid	8015 NM	
880-58112-6	S-2 (0-1.0')	Total/NA	Solid	8015 NM	
880-58112-7	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-58112-8	S-2 (2.0')	Total/NA	Solid	8015 NM	
880-58112-9	S-2 (3.0')	Total/NA	Solid	8015 NM	
880-58112-10	S-2 (4.0')	Total/NA	Solid	8015 NM	
880-58112-11	S-3 (0-1.0')	Total/NA	Solid	8015 NM	
880-58112-12	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-58112-13	S-3 (2.0')	Total/NA	Solid	8015 NM	
880-58112-14	S-3 (3.0')	Total/NA	Solid	8015 NM	
880-58112-15	S-3 (4.0')	Total/NA	Solid	8015 NM	
880-58112-16	S-4 (0-1.0')	Total/NA	Solid	8015 NM	
880-58112-17	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-58112-18	S-4 (2.0')	Total/NA	Solid	8015 NM	
880-58112-19	S-4 (3.0')	Total/NA	Solid	8015 NM	
880-58112-20	S-4 (4.0')	Total/NA	Solid	8015 NM	
880-58112-21	S-5 (0-1.0')	Total/NA	Solid	8015 NM	
880-58112-22	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-58112-23	S-5 (2.0')	Total/NA	Solid	8015 NM	
880-58112-24	S-5 (3.0')	Total/NA	Solid	8015 NM	
880-58112-25	S-5 (4.0')	Total/NA	Solid	8015 NM	
880-58112-26	S-5 (5.0')	Total/NA	Solid	8015 NM	
880-58112-27	S-6 (0-1.0')	Total/NA	Solid	8015 NM	
880-58112-28	S-6 (1.5')	Total/NA	Solid	8015 NM	
880-58112-29	S-6 (2.0')	Total/NA	Solid	8015 NM	
880-58112-30	S-6 (3.0')	Total/NA	Solid	8015 NM	
880-58112-31	S-6 (4.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-27	S-6 (0-1.0')	Soluble	Solid	DI Leach	
880-58112-28	S-6 (1.5')	Soluble	Solid	DI Leach	
880-58112-29	S-6 (2.0')	Soluble	Solid	DI Leach	
880-58112-30	S-6 (3.0')	Soluble	Solid	DI Leach	
880-58112-31	S-6 (4.0')	Soluble	Solid	DI Leach	
MB 880-110118/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110118/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110118/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8151-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8151-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

QC Association Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

HPLC/IC

Leach Batch: 110124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-1	S-1 (0-1.0')	Soluble	Solid	DI Leach	
880-58112-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-58112-3	S-1 (2.0')	Soluble	Solid	DI Leach	
880-58112-4	S-1 (3.0')	Soluble	Solid	DI Leach	
880-58112-5	S-1 (4.0')	Soluble	Solid	DI Leach	
880-58112-6	S-2 (0-1.0')	Soluble	Solid	DI Leach	
MB 880-110124/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110124/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110124/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58103-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-58103-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 110125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-7	S-2 (1.5')	Soluble	Solid	DI Leach	
880-58112-8	S-2 (2.0')	Soluble	Solid	DI Leach	
880-58112-9	S-2 (3.0')	Soluble	Solid	DI Leach	
880-58112-10	S-2 (4.0')	Soluble	Solid	DI Leach	
880-58112-11	S-3 (0-1.0')	Soluble	Solid	DI Leach	
880-58112-12	S-3 (1.5')	Soluble	Solid	DI Leach	
880-58112-13	S-3 (2.0')	Soluble	Solid	DI Leach	
880-58112-14	S-3 (3.0')	Soluble	Solid	DI Leach	
880-58112-15	S-3 (4.0')	Soluble	Solid	DI Leach	
880-58112-16	S-4 (0-1.0')	Soluble	Solid	DI Leach	
880-58112-17	S-4 (1.5')	Soluble	Solid	DI Leach	
880-58112-18	S-4 (2.0')	Soluble	Solid	DI Leach	
880-58112-19	S-4 (3.0')	Soluble	Solid	DI Leach	
880-58112-20	S-4 (4.0')	Soluble	Solid	DI Leach	
880-58112-21	S-5 (0-1.0')	Soluble	Solid	DI Leach	
880-58112-22	S-5 (1.5')	Soluble	Solid	DI Leach	
880-58112-23	S-5 (2.0')	Soluble	Solid	DI Leach	
880-58112-24	S-5 (3.0')	Soluble	Solid	DI Leach	
880-58112-25	S-5 (4.0')	Soluble	Solid	DI Leach	
880-58112-26	S-5 (5.0')	Soluble	Solid	DI Leach	
MB 880-110125/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110125/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110125/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58112-7 MS	S-2 (1.5')	Soluble	Solid	DI Leach	
880-58112-7 MSD	S-2 (1.5')	Soluble	Solid	DI Leach	
880-58112-17 MS	S-4 (1.5')	Soluble	Solid	DI Leach	
880-58112-17 MSD	S-4 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 110138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-27	S-6 (0-1.0')	Soluble	Solid	300.0	110118
880-58112-28	S-6 (1.5')	Soluble	Solid	300.0	110118
880-58112-29	S-6 (2.0')	Soluble	Solid	300.0	110118
880-58112-30	S-6 (3.0')	Soluble	Solid	300.0	110118
880-58112-31	S-6 (4.0')	Soluble	Solid	300.0	110118
MB 880-110118/1-A	Method Blank	Soluble	Solid	300.0	110118
LCS 880-110118/2-A	Lab Control Sample	Soluble	Solid	300.0	110118

QC Association Summary

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 110138 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-110118/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110118
890-8151-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	110118
890-8151-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110118

Analysis Batch: 110199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-1	S-1 (0-1.0')	Soluble	Solid	300.0	110124
880-58112-2	S-1 (1.5')	Soluble	Solid	300.0	110124
880-58112-3	S-1 (2.0')	Soluble	Solid	300.0	110124
880-58112-4	S-1 (3.0')	Soluble	Solid	300.0	110124
880-58112-5	S-1 (4.0')	Soluble	Solid	300.0	110124
880-58112-6	S-2 (0-1.0')	Soluble	Solid	300.0	110124
MB 880-110124/1-A	Method Blank	Soluble	Solid	300.0	110124
LCS 880-110124/2-A	Lab Control Sample	Soluble	Solid	300.0	110124
LCSD 880-110124/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110124
880-58103-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	110124
880-58103-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110124

Analysis Batch: 110219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58112-7	S-2 (1.5')	Soluble	Solid	300.0	110125
880-58112-8	S-2 (2.0')	Soluble	Solid	300.0	110125
880-58112-9	S-2 (3.0')	Soluble	Solid	300.0	110125
880-58112-10	S-2 (4.0')	Soluble	Solid	300.0	110125
880-58112-11	S-3 (0-1.0')	Soluble	Solid	300.0	110125
880-58112-12	S-3 (1.5')	Soluble	Solid	300.0	110125
880-58112-13	S-3 (2.0')	Soluble	Solid	300.0	110125
880-58112-14	S-3 (3.0')	Soluble	Solid	300.0	110125
880-58112-15	S-3 (4.0')	Soluble	Solid	300.0	110125
880-58112-16	S-4 (0-1.0')	Soluble	Solid	300.0	110125
880-58112-17	S-4 (1.5')	Soluble	Solid	300.0	110125
880-58112-18	S-4 (2.0')	Soluble	Solid	300.0	110125
880-58112-19	S-4 (3.0')	Soluble	Solid	300.0	110125
880-58112-20	S-4 (4.0')	Soluble	Solid	300.0	110125
880-58112-21	S-5 (0-1.0')	Soluble	Solid	300.0	110125
880-58112-22	S-5 (1.5')	Soluble	Solid	300.0	110125
880-58112-23	S-5 (2.0')	Soluble	Solid	300.0	110125
880-58112-24	S-5 (3.0')	Soluble	Solid	300.0	110125
880-58112-25	S-5 (4.0')	Soluble	Solid	300.0	110125
880-58112-26	S-5 (5.0')	Soluble	Solid	300.0	110125
MB 880-110125/1-A	Method Blank	Soluble	Solid	300.0	110125
LCS 880-110125/2-A	Lab Control Sample	Soluble	Solid	300.0	110125
LCSD 880-110125/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110125
880-58112-7 MS	S-2 (1.5')	Soluble	Solid	300.0	110125
880-58112-7 MSD	S-2 (1.5')	Soluble	Solid	300.0	110125
880-58112-17 MS	S-4 (1.5')	Soluble	Solid	300.0	110125
880-58112-17 MSD	S-4 (1.5')	Soluble	Solid	300.0	110125

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 20:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/14/25 23:03	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 23:03	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110124	05/14/25 05:00	SA	EET MID
Soluble	Analysis	300.0		5			110199	05/15/25 14:34	SMC	EET MID

Client Sample ID: S-1 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 20:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 20:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/14/25 23:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 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 23:19	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110124	05/14/25 05:00	SA	EET MID
Soluble	Analysis	300.0		1			110199	05/15/25 14:41	SMC	EET MID

Client Sample ID: S-1 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 20:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 20:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/14/25 23:35	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 23:35	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110124	05/14/25 05:00	SA	EET MID
Soluble	Analysis	300.0		1			110199	05/15/25 14:47	SMC	EET MID

Client Sample ID: S-1 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 21:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 21:03	SM	EET MID

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110233	05/14/25 23:51	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 23:51	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110124	05/14/25 05:00	SA	EET MID
Soluble	Analysis	300.0		1			110199	05/15/25 14:54	SMC	EET MID

Client Sample ID: S-1 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 21:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 21:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 00:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 00:07	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110124	05/14/25 05:00	SA	EET MID
Soluble	Analysis	300.0		1			110199	05/15/25 15:01	SMC	EET MID

Client Sample ID: S-2 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 21:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 21:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 00:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 00:23	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110124	05/14/25 05:00	SA	EET MID
Soluble	Analysis	300.0		1			110199	05/15/25 15:08	SMC	EET MID

Client Sample ID: S-2 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 22:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 22:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 00:39	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	05/15/25 00:39	TKC	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 12:50	SMC	EET MID

Client Sample ID: S-2 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 22:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 22:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 00:55	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	05/15/25 00:55	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:06	SMC	EET MID

Client Sample ID: S-2 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 22:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 22:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 03:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 03:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:11	SMC	EET MID

Client Sample ID: S-2 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110113	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 23:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 23:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 03:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 03:53	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:16	SMC	EET MID

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 22:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 22:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 04:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 04:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:22	SMC	EET MID

Client Sample ID: S-3 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 22:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 22:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 04:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 04:26	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:37	SMC	EET MID

Client Sample ID: S-3 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 22:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 04:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 04:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:42	SMC	EET MID

Client Sample ID: S-3 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 23:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 23:06	SM	EET MID

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110233	05/15/25 05:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 05:00	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:48	SMC	EET MID

Client Sample ID: S-3 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 23:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 23:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 05:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 05:17	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:53	SMC	EET MID

Client Sample ID: S-4 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 23:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 23:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 05:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 05:32	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 13:58	SMC	EET MID

Client Sample ID: S-4 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 00:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 00:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 05:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 05:49	TKC	EET MID

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-17
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	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 14:03	SMC	EET MID

Client Sample ID: S-4 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-18
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	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 00:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 00:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 06:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 06:05	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 14:19	SMC	EET MID

Client Sample ID: S-4 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-19
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	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 00:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 06:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 06:37	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 14:24	SMC	EET MID

Client Sample ID: S-4 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-20
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			5.01 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 01:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 06:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 06:54	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 14:39	SMC	EET MID

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 02:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 02:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 07:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 07:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 14:45	SMC	EET MID

Client Sample ID: S-5 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 02:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 02:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 07:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 07:27	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 14:50	SMC	EET MID

Client Sample ID: S-5 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 03:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 03:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 07:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 07:42	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 14:55	SMC	EET MID

Client Sample ID: S-5 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 03:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 03:35	SM	EET MID

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110233	05/15/25 08:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 08:00	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 15:00	SMC	EET MID

Client Sample ID: S-5 (4.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 03:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 03:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 08:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 08:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 15:05	SMC	EET MID

Client Sample ID: S-5 (5.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 04:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 04:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 08:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 08:33	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110125	05/14/25 11:34	SA	EET MID
Soluble	Analysis	300.0		1			110219	05/15/25 15:10	SMC	EET MID

Client Sample ID: S-6 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 04:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 04:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 08:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 08:49	TKC	EET MID

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (0-1.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	110118	05/14/25 11:22	SA	EET MID
Soluble	Analysis	300.0		1			110138	05/14/25 17:45	CH	EET MID

Client Sample ID: S-6 (1.5')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 04:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 04:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 09:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110111	05/14/25 11:00	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/15/25 09:05	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110118	05/14/25 11:22	SA	EET MID
Soluble	Analysis	300.0		1			110138	05/14/25 17:51	CH	EET MID

Client Sample ID: S-6 (2.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 05:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 05:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110116	05/14/25 11:12	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110221	05/15/25 12:01	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110118	05/14/25 11:22	SA	EET MID
Soluble	Analysis	300.0		1			110138	05/14/25 17:58	CH	EET MID

Client Sample ID: S-6 (3.0')
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110115	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/16/25 05:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/16/25 05:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 15:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110116	05/14/25 11:12	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110221	05/15/25 15:14	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110118	05/14/25 11:22	SA	EET MID
Soluble	Analysis	300.0		1			110138	05/14/25 18:05	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-58112-1
SDG: Lea County, New Mexico

Client Sample ID: S-6 (4.0')

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58112-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	110128	05/14/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110089	05/15/25 05:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110207	05/15/25 05:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			110233	05/15/25 15:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110116	05/14/25 11:12	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110221	05/15/25 15:29	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110118	05/14/25 11:22	SA	EET MID
Soluble	Analysis	300.0		1			110138	05/14/25 18:12	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-58112-1
Project/Site: Lea Federal Unit 21H
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: 880-58112-1
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: 880-58112-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58112-1	S-1 (0-1.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-2	S-1 (1.5')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-3	S-1 (2.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-4	S-1 (3.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-5	S-1 (4.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-6	S-2 (0-1.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-7	S-2 (1.5')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-8	S-2 (2.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-9	S-2 (3.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-10	S-2 (4.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-11	S-3 (0-1.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-12	S-3 (1.5')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-13	S-3 (2.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-14	S-3 (3.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-15	S-3 (4.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-16	S-4 (0-1.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-17	S-4 (1.5')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-18	S-4 (2.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-19	S-4 (3.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-20	S-4 (4.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-21	S-5 (0-1.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-22	S-5 (1.5')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-23	S-5 (2.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-24	S-5 (3.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-25	S-5 (4.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-26	S-5 (5.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-27	S-6 (0-1.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-28	S-6 (1.5')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-29	S-6 (2.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-30	S-6 (3.0')	Solid	05/12/25 00:00	05/13/25 17:03
880-58112-31	S-6 (4.0')	Solid	05/12/25 00:00	05/13/25 17:03

Chain of Custody

880-58112 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

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 Federal Unit 21H	Turn Around	☑ Routine ☐ Rush
Project Number:	2716	Due Date:	Standard
Project Location	Lea County, New Mexico		
Sampler's Name:	JR		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IR4
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

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-1 (0-1.0')	5/12/2025		X		G	1		X	X	X		
S-1 (1.5')	5/12/2025		X		G	1		X	X	X		
S-1 (2.0')	5/12/2025		X		G	1		X	X	X		
S-1 (3.0')	5/12/2025		X		G	1		X	X	X		
S-1 (4.0')	5/12/2025		X		G	1		X	X	X		
S-2 (0-1.0')	5/12/2025		X		G	1		X	X	X		
S-2 (1.5')	5/12/2025		X		G	1		X	X	X		
S-2 (2.0')	5/12/2025		X		G	1		X	X	X		
S-2 (3.0')	5/12/2025		X		G	1		X	X	X		
S-2 (4.0')	5/12/2025		X		G	1		X	X	X		

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 ☐ 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		
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	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
S-3 (0-1.0')	5/12/2025		X		G	1	X	X	X		
S-3 (1.5')	5/12/2025		X		G	1	X	X	X		
S-3 (2.0')	5/12/2025		X		G	1	X	X	X		
S-3 (3.0')	5/12/2025		X		G	1	X	X	X		
S-3 (4.0')	5/12/2025		X		G	1	X	X	X		
S-4 (0-1.0')	5/12/2025		X		G	1	X	X	X		
S-4 (1.5')	5/12/2025		X		G	1	X	X	X		
S-4 (2.0')	5/12/2025		X		G	1	X	X	X		
S-4 (3.0')	5/12/2025		X		G	1	X	X	X		
S-4 (4.0')	5/12/2025		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 ☐ 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		
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	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
S-5 (0-1.0')	5/12/2025		X		G	1		X	X	X		
S-5 (1.5')	5/12/2025		X		G	1		X	X	X		
S-5 (2.0')	5/12/2025		X		G	1		X	X	X		
S-5 (3.0')	5/12/2025		X		G	1		X	X	X		
S-5 (4.0')	5/12/2025		X		G	1		X	X	X		
S-5 (5.0')	5/12/2025		X		G	1		X	X	X		
S-6 (0-1.0')	5/12/2025		X		G	1		X	X	X		
S-6 (1.5')	5/12/2025		X		G	1		X	X	X		
S-6 (2.0')	5/12/2025		X		G	1		X	X	X		
S-6 (3.0')	5/12/2025		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 ☐ 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	Pres. Code
Project Number:	2716	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date:	Standard
Sampler's Name:	JR		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	Parameters
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

ANALYSIS REQUEST

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	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
S-6 (4.0')	5/12/2025		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: 880-58112-1
SDG Number: Lea County, New Mexico

Login Number: 58112
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	

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 12:40:23 PM

JOB DESCRIPTION

Lea Federal Unit 21H
Lea County, New Mexico

JOB NUMBER

880-58109-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

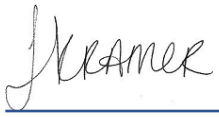
Eurofins Midland

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



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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 Federal Unit 21H

Laboratory Job ID: 880-58109-1
SDG: Lea County, New Mexico

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Definitions/Glossary

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

Job ID: 880-58109-1
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 Federal Unit 21H

Job ID: 880-58109-1

Job ID: 880-58109-1 Eurofins Midland

Job Narrative
880-58109-1

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 5:05 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.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-58109-1), H-2 (0-0.5') (880-58109-2), H-3 (0-0.5') (880-58109-3), H-4 (0-0.5') (880-58109-4), H-5 (0-0.5') (880-58109-5) and H-6 (0-0.5') (880-58109-6).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-110185 recovered above the upper control limit for MTBE. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-110185/33).

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-110188 and analytical batch 880-110185 recovered outside control limits for the following analytes: <AffectedAnalytes>. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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: The method blank for preparation batch 880-110104 and analytical batch 880-110100 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110122 and analytical batch 880-110158 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.

Client Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58109-1
Matrix: Solid
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/15/25 08:29	05/15/25 16:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/15/25 08:29	05/15/25 16:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/15/25 08:29	05/15/25 16:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/15/25 08:29	05/15/25 16:56	1
o-Xylene	**0.118**		0.00202		mg/Kg		05/15/25 08:29	05/15/25 16:56	1
Xylenes, Total	**0.118**		0.00404		mg/Kg		05/15/25 08:29	05/15/25 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/15/25 08:29*	*05/15/25 16:56*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/15/25 08:29*	*05/15/25 16:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.118**		0.00404		mg/Kg			05/15/25 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		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	<49.9	U	49.9		mg/Kg		05/14/25 09:46	05/14/25 21:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/14/25 09:46	05/14/25 21:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/25 09:46	05/14/25 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*05/14/25 09:46*	*05/14/25 21:59*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*05/14/25 09:46*	*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	**90.8**		10.1		mg/Kg			05/14/25 21:03	1

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

Lab Sample ID: 880-58109-2
Matrix: Solid
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

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		05/15/25 08:29	05/15/25 17:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/15/25 08:29	05/15/25 17:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/15/25 08:29	05/15/25 17:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/15/25 08:29	05/15/25 17:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/15/25 08:29	05/15/25 17:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/15/25 08:29	05/15/25 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/15/25 08:29*	*05/15/25 17:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/15/25 08:29*	*05/15/25 17:17*	*1*

Client Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58109-2
Matrix: Solid
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

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 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	<49.8	U	49.8		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	<49.8	U	49.8		mg/Kg		05/14/25 09:46	05/14/25 22:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 09:46	05/14/25 22:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 09:46	05/14/25 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*05/14/25 09:46*	*05/14/25 22:30*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*05/14/25 09:46*	*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	**300**		9.94		mg/Kg			05/14/25 21:10	1

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

Lab Sample ID: 880-58109-3
Matrix: Solid
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

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		05/15/25 08:29	05/15/25 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/15/25 08:29	05/15/25 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 17:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/15/25 08:29	05/15/25 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/15/25 08:29*	*05/15/25 17:37*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/15/25 08:29*	*05/15/25 17:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/15/25 17:37	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 09:46	05/14/25 22:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 09:46	05/14/25 22:47	1

Client Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58109-3
Matrix: Solid
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

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 09:46	05/14/25 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*05/14/25 09:46*	*05/14/25 22:47*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*05/14/25 09:46*	*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	**93.1**		9.96		mg/Kg			05/14/25 21:17	1

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

Lab Sample ID: 880-58109-4
Matrix: Solid
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

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		05/15/25 08:29	05/15/25 17:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/15/25 08:29	05/15/25 17:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/15/25 08:29	05/15/25 17:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/15/25 08:29	05/15/25 17:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/15/25 08:29	05/15/25 17:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/15/25 08:29	05/15/25 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/15/25 08:29*	*05/15/25 17:58*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/15/25 08:29*	*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	<0.00402	U	0.00402		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 23:03	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 09:46	05/14/25 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 09:46	05/14/25 23:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 09:46	05/14/25 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*05/14/25 09:46*	*05/14/25 23:03*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*05/14/25 09:46*	*05/14/25 23:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.9**		10.0		mg/Kg			05/14/25 21:24	1

Client Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58109-5
Matrix: Solid
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/15/25 08:29	05/15/25 18:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/15/25 08:29	05/15/25 18:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/15/25 08:29	05/15/25 18:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/15/25 08:29	05/15/25 18:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/15/25 08:29	05/15/25 18:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/15/25 08:29	05/15/25 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/15/25 08:29*	*05/15/25 18:18*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/15/25 08:29*	*05/15/25 18:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/15/25 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**89.9**		50.1		mg/Kg			05/14/25 23:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/14/25 09:46	05/14/25 23:19	1
Diesel Range Organics (Over C10-C28)	**89.9**		50.1		mg/Kg		05/14/25 09:46	05/14/25 23:19	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 09:46	05/14/25 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*05/14/25 09:46*	*05/14/25 23:19*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*05/14/25 09:46*	*05/14/25 23:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.5**	**F1**	10.1		mg/Kg			05/14/25 19:06	1

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

Lab Sample ID: 880-58109-6
Matrix: Solid
Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

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		05/15/25 08:29	05/15/25 18:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/15/25 08:29	05/15/25 18:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/15/25 08:29	05/15/25 18:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/15/25 08:29	05/15/25 18:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/15/25 08:29	05/15/25 18:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/15/25 08:29	05/15/25 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/15/25 08:29*	*05/15/25 18:39*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/15/25 08:29*	*05/15/25 18:39*	*1*

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Client Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Date Collected: 05/12/25 00:00
Date Received: 05/13/25 17:05

Lab Sample ID: 880-58109-6

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		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	**79.9**		50.2		mg/Kg			05/14/25 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/14/25 09:46	05/14/25 23:35	1
Diesel Range Organics (Over C10-C28)	**79.9**		50.2		mg/Kg		05/14/25 09:46	05/14/25 23:35	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/14/25 09:46	05/14/25 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*05/14/25 09:46*	*05/14/25 23:35*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*05/14/25 09:46*	*05/14/25 23:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.7**		10.0		mg/Kg			05/14/25 19:27	1

Surrogate Summary

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-58109-1	H-1 (0-0.5')	91	91										
880-58109-2	H-2 (0-0.5')	89	99										
880-58109-3	H-3 (0-0.5')	91	83										
880-58109-4	H-4 (0-0.5')	88	96										
880-58109-5	H-5 (0-0.5')	89	97										
880-58109-6	H-6 (0-0.5')	87	96										
890-8159-A-6-C MS	Matrix Spike	108	92										
890-8159-A-6-D MSD	Matrix Spike Duplicate	105	91										
LCS 880-110188/1-A	Lab Control Sample	108	89										
LCSD 880-110188/2-A	Lab Control Sample Dup	111	101										
MB 880-110188/5-A	Method Blank	90	98										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-58102-A-9-B MS	Matrix Spike	94	86										
880-58102-A-9-C MSD	Matrix Spike Duplicate	95	86										
880-58109-1	H-1 (0-0.5')	84	79										
880-58109-2	H-2 (0-0.5')	88	86										
880-58109-3	H-3 (0-0.5')	86	82										
880-58109-4	H-4 (0-0.5')	87	83										
880-58109-5	H-5 (0-0.5')	87	86										
880-58109-6	H-6 (0-0.5')	85	83										
LCS 880-110104/2-A	Lab Control Sample	105	111										
LCSD 880-110104/3-A	Lab Control Sample Dup	123	109										
MB 880-110104/1-A	Method Blank	85	86										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110188/5-A
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/25 08:29	05/15/25 11:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/15/25 08:29	05/15/25 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/15/25 08:29*	*05/15/25 11:05*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/15/25 08:29*	*05/15/25 11:05*	*1*

Lab Sample ID: LCS 880-110188/1-A
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07612		mg/Kg		76	70 - 130
Toluene	0.100	0.08219		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.09630		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1793		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08678		mg/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-110188/2-A
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110188

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09033		mg/Kg		90	70 - 130	17	35
Toluene	0.100	0.08533		mg/Kg		85	70 - 130	4	35
Ethylbenzene	0.100	0.08961		mg/Kg		90	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1713		mg/Kg		86	70 - 130	5	35
o-Xylene	0.100	0.09693		mg/Kg		97	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-8159-A-6-C MS
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08714		mg/Kg		87	70 - 130
Toluene	<0.00200	U	0.100	0.08777		mg/Kg		88	70 - 130

QC Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-8159-A-6-C MS
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09897		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1881		mg/Kg		94	70 - 130
o-Xylene	<0.00200	U	0.100	0.09200		mg/Kg		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-8159-A-6-D MSD
Matrix: Solid
Analysis Batch: 110185

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110188

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	0.08001		mg/Kg		80	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.08023		mg/Kg		80	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.100	0.08926		mg/Kg		89	70 - 130	10	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1716		mg/Kg		86	70 - 130	9	35
o-Xylene	<0.00200	U	0.100	0.08355		mg/Kg		84	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

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

Lab Sample ID: MB 880-110104/1-A
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110104

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 09:46	05/14/25 18:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 09:46	05/14/25 18:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 09:46	05/14/25 18:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*05/14/25 09:46*	*05/14/25 18:13*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*05/14/25 09:46*	*05/14/25 18:13*	*1*

Lab Sample ID: LCS 880-110104/2-A
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	878.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	923.9		mg/Kg		92	70 - 130

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QC Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-110104/2-A
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110104

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-110104/3-A
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	871.4		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	873.7		mg/Kg		87	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	123		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 880-58102-A-9-B MS
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110104

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	998	713.8		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	92.9		998	817.7		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	86		70 - 130

Lab Sample ID: 880-58102-A-9-C MSD
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110104

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	998	727.5		mg/Kg		73	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	92.9		998	818.9		mg/Kg		73	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	86		70 - 130

QC Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110121/1-A
Matrix: Solid
Analysis Batch: 110146

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			05/14/25 17:52	1

Lab Sample ID: LCS 880-110121/2-A
Matrix: Solid
Analysis Batch: 110146

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-110121/3-A
Matrix: Solid
Analysis Batch: 110146

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	254.7		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-58102-A-11-C MS
Matrix: Solid
Analysis Batch: 110146

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	119		250	385.1		mg/Kg		106	90 - 110		

Lab Sample ID: 880-58102-A-11-D MSD
Matrix: Solid
Analysis Batch: 110146

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	119		250	384.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-110122/1-A
Matrix: Solid
Analysis Batch: 110158

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			05/14/25 18:46	1

Lab Sample ID: LCS 880-110122/2-A
Matrix: Solid
Analysis Batch: 110158

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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
Matrix: Solid
Analysis Batch: 110158

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	257.4		mg/Kg		103	90 - 110	1	20

QC Sample Results

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-58109-5 MS
Matrix: Solid
Analysis Batch: 110158

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	96.5	F1	252	372.7		mg/Kg		110	90 - 110		

Lab Sample ID: 880-58109-5 MSD
Matrix: Solid
Analysis Batch: 110158

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	96.5	F1	252	375.2	F1	mg/Kg		111	90 - 110	1	20

QC Association Summary

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 110185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-1	H-1 (0-0.5')	Total/NA	Solid	8021B	110188
880-58109-2	H-2 (0-0.5')	Total/NA	Solid	8021B	110188
880-58109-3	H-3 (0-0.5')	Total/NA	Solid	8021B	110188
880-58109-4	H-4 (0-0.5')	Total/NA	Solid	8021B	110188
880-58109-5	H-5 (0-0.5')	Total/NA	Solid	8021B	110188
880-58109-6	H-6 (0-0.5')	Total/NA	Solid	8021B	110188
MB 880-110188/5-A	Method Blank	Total/NA	Solid	8021B	110188
LCS 880-110188/1-A	Lab Control Sample	Total/NA	Solid	8021B	110188
LCSD 880-110188/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110188
890-8159-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	110188
890-8159-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110188

Prep Batch: 110188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-58109-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-58109-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-58109-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-58109-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-58109-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-110188/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110188/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110188/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8159-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8159-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 110334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58109-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58109-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58109-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58109-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58109-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 110100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	110104
880-58109-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	110104
880-58109-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	110104
880-58109-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	110104
880-58109-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	110104
880-58109-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	110104
MB 880-110104/1-A	Method Blank	Total/NA	Solid	8015B NM	110104
LCS 880-110104/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110104
LCSD 880-110104/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110104
880-58102-A-9-B MS	Matrix Spike	Total/NA	Solid	8015B NM	110104
880-58102-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110104

QC Association Summary

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

GC Semi VOA

Prep Batch: 110104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58109-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58109-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58109-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58109-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58109-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-110104/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110104/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110104/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58102-A-9-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-58102-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-58109-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-58109-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-58109-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-58109-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-58109-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-58109-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-58109-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-58109-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-110121/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110121/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110121/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58102-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-58102-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 110122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-58109-6	H-6 (0-0.5')	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	
880-58109-5 MS	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-58109-5 MSD	H-5 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 110146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-1	H-1 (0-0.5')	Soluble	Solid	300.0	110121
880-58109-2	H-2 (0-0.5')	Soluble	Solid	300.0	110121
880-58109-3	H-3 (0-0.5')	Soluble	Solid	300.0	110121
880-58109-4	H-4 (0-0.5')	Soluble	Solid	300.0	110121

QC Association Summary

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 110146 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-110121/1-A	Method Blank	Soluble	Solid	300.0	110121
LCS 880-110121/2-A	Lab Control Sample	Soluble	Solid	300.0	110121
LCSD 880-110121/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110121
880-58102-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	110121
880-58102-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110121

Analysis Batch: 110158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58109-5	H-5 (0-0.5')	Soluble	Solid	300.0	110122
880-58109-6	H-6 (0-0.5')	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
880-58109-5 MS	H-5 (0-0.5')	Soluble	Solid	300.0	110122
880-58109-5 MSD	H-5 (0-0.5')	Soluble	Solid	300.0	110122

Lab Chronicle

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58109-1

Date Collected: 05/12/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110188	05/15/25 08:29	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110334	05/15/25 16:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			110230	05/14/25 21:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110104	05/14/25 09:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 21:59	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110121	05/14/25 11:25	SA	EET MID
Soluble	Analysis	300.0		1			110146	05/14/25 21:03	CH	EET MID

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

Lab Sample ID: 880-58109-2

Date Collected: 05/12/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:05

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	110188	05/15/25 08:29	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 17:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110334	05/15/25 17:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			110230	05/14/25 22:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110104	05/14/25 09:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 22:30	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110121	05/14/25 11:25	SA	EET MID
Soluble	Analysis	300.0		1			110146	05/14/25 21:10	CH	EET MID

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

Lab Sample ID: 880-58109-3

Date Collected: 05/12/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110188	05/15/25 08:29	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110334	05/15/25 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			110230	05/14/25 22:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110104	05/14/25 09:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 22:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110121	05/14/25 11:25	SA	EET MID
Soluble	Analysis	300.0		1			110146	05/14/25 21:17	CH	EET MID

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

Lab Sample ID: 880-58109-4

Date Collected: 05/12/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:05

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	110188	05/15/25 08:29	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 17:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110334	05/15/25 17:58	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-58109-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58109-4

Date Collected: 05/12/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:05

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			110230	05/14/25 23:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110104	05/14/25 09:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 23:03	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110121	05/14/25 11:25	SA	EET MID
Soluble	Analysis	300.0		1			110146	05/14/25 21:24	CH	EET MID

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

Lab Sample ID: 880-58109-5

Date Collected: 05/12/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110188	05/15/25 08:29	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 18:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110334	05/15/25 18:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			110230	05/14/25 23:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110104	05/14/25 09:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 23:19	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 19:06	CH	EET MID

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

Lab Sample ID: 880-58109-6

Date Collected: 05/12/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:05

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	110188	05/15/25 08:29	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110185	05/15/25 18:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110334	05/15/25 18:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			110230	05/14/25 23:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	110104	05/14/25 09:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 23:35	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 19:27	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-58109-1
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: 880-58109-1
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: 880-58109-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58109-1	H-1 (0-0.5')	Solid	05/12/25 00:00	05/13/25 17:05
880-58109-2	H-2 (0-0.5')	Solid	05/12/25 00:00	05/13/25 17:05
880-58109-3	H-3 (0-0.5')	Solid	05/12/25 00:00	05/13/25 17:05
880-58109-4	H-4 (0-0.5')	Solid	05/12/25 00:00	05/13/25 17:05
880-58109-5	H-5 (0-0.5')	Solid	05/12/25 00:00	05/13/25 17:05
880-58109-6	H-6 (0-0.5')	Solid	05/12/25 00:00	05/13/25 17:05

Chain of Custody

880-58109 Chain of Custody

___ 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 Federal Unit 21H	Turn Around	Pres. Code
Project Number:	2716	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date: Standard	
Sampler's Name:	JR		
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:	1.2

ANALYSIS REQUEST

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
H-1 (0-0.5')	5/12/2025		X		G	1	X	X	X		
H-2 (0-0.5')	5/12/2025		X		G	1	X	X	X		
H-3 (0-0.5')	5/12/2025		X		G	1	X	X	X		
H-4 (0-0.5')	5/12/2025		X		G	1	X	X	X		
H-5 (0-0.5')	5/12/2025		X		G	1	X	X	X		
H-6 (0-0.5')	5/12/2025		X		G	1	X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			5.13.25 1703

5/16/2025

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-58109-1
SDG Number: Lea County, New Mexico

Login Number: 58109
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 06, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: LEA FEDERAL UNIT 21H

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 FEDERAL UNIT 21H	Sampling Condition:	Cool & Intact
Project Number:	2716	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: CS - 1 (1.5') (H253380-01)

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 *99.9 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	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 *74.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *73.0 %* *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 FEDERAL UNIT 21H	Sampling Condition:	Cool & Intact
Project Number:	2716	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: SW - 1 (1.5') (H253380-02)

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 *98.7 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**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 *68.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *69.4 %* *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 FEDERAL UNIT 21H	Sampling Condition:	Cool & Intact
Project Number:	2716	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: SW - 2 (1.5') (H253380-03)

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 *94.0 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**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	06/05/2025	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 *85.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *83.0 %* *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 FEDERAL UNIT 21H	Sampling Condition:	Cool & Intact
Project Number:	2716	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: SW - 3 (1.5') (H253380-04)

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 *99.2 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**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	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 *66.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *62.0 %* *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 FEDERAL UNIT 21H	Sampling Condition:	Cool & Intact
Project Number:	2716	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: SW - 4 (1.5') (H253380-05)

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 *96.3 %* *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	<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	06/05/2025	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 *70.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *69.6 %* *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: H253380

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 Federal Unit 21H	Turn Around	☐ Routine ☑ Rush
Project Number:	2716	Due Date:	24 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:	C+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	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold
CS-1 (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
			10-5-25/1505

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 12:23:48 PM

JOB DESCRIPTION

Lea Federal Unit 21H
Lea County, New Mexico

JOB NUMBER

880-59114-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

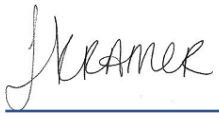
Eurofins Midland

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



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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 Federal Unit 21H

Laboratory Job ID: 880-59114-1
SDG: Lea County, New Mexico

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Definitions/Glossary

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

Job ID: 880-59114-1
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 Federal Unit 21H

Job ID: 880-59114-1

Job ID: 880-59114-1 Eurofins Midland

Job Narrative
880-59114-1

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 (880-59114-1).

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 (880-59114-1), (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 Federal Unit 21H

Job ID: 880-59114-1
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: 880-59114-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/09/25 16:44	06/09/25 21:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/09/25 16:44	06/09/25 21:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/09/25 16:44	06/09/25 21:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/09/25 16:44	06/09/25 21:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/09/25 16:44	06/09/25 21:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/09/25 16:44	06/09/25 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/09/25 16:44*	*06/09/25 21:45*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/09/25 16:44*	*06/09/25 21:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/09/25 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/11/25 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/25 09:02	06/11/25 03:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/25 09:02	06/11/25 03:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/25 09:02	06/11/25 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*06/10/25 09:02*	*06/11/25 03:11*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*06/10/25 09:02*	*06/11/25 03:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.7**		10.1		mg/Kg			06/10/25 10:51	1

Surrogate Summary

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

Job ID: 880-59114-1
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)
880-59079-A-1-B MS	Matrix Spike	92	102
880-59079-A-1-C MSD	Matrix Spike Duplicate	95	101
880-59114-1	Backfill	89	101
LCS 880-111766/1-A	Lab Control Sample	95	100
LCSD 880-111766/2-A	Lab Control Sample Dup	96	105
MB 880-111766/5-A	Method Blank	98	90

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-A-1-C MS	Matrix Spike	108	96
880-59113-A-1-D MSD	Matrix Spike Duplicate	109	97
880-59114-1	Backfill	102	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 Federal Unit 21H

Job ID: 880-59114-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111766/5-A
Matrix: Solid
Analysis Batch: 111753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/25 10:26	06/09/25 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/25 10:26	06/09/25 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/25 10:26	06/09/25 13:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/09/25 10:26	06/09/25 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/25 10:26	06/09/25 13:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/09/25 10:26	06/09/25 13:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/09/25 10:26*	*06/09/25 13:40*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/09/25 10:26*	*06/09/25 13:40*	*1*

Lab Sample ID: LCS 880-111766/1-A
Matrix: Solid
Analysis Batch: 111753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09768		mg/Kg		98	70 - 130
Toluene	0.100	0.08918		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09476		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1990		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09898		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-111766/2-A
Matrix: Solid
Analysis Batch: 111753

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1004		mg/Kg		100	70 - 130	3	35
Toluene	0.100	0.09131		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.09765		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2051		mg/Kg		103	70 - 130	3	35
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-59079-A-1-B MS
Matrix: Solid
Analysis Batch: 111753

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 111766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1048		mg/Kg		105	70 - 130
Toluene	<0.00199	U	0.100	0.08507		mg/Kg		85	70 - 130

QC Sample Results

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

Job ID: 880-59114-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-59079-A-1-B MS
Matrix: Solid
Analysis Batch: 111753

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 111766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.100	0.08487		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1717		mg/Kg		86	70 - 130
o-Xylene	<0.00199	U	0.100	0.08480		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-59079-A-1-C MSD
Matrix: Solid
Analysis Batch: 111753

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 111766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09806		mg/Kg		98	70 - 130	7	35
Toluene	<0.00199	U	0.100	0.08716		mg/Kg		87	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.09075		mg/Kg		91	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1906		mg/Kg		95	70 - 130	10	35
o-Xylene	<0.00199	U	0.100	0.09520		mg/Kg		95	70 - 130	12	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*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

QC Sample Results

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

Job ID: 880-59114-1
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-A-1-C MS
Matrix: Solid
Analysis Batch: 111872

Client Sample ID: Matrix Spike
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-A-1-D MSD
Matrix: Solid
Analysis Batch: 111872

Client Sample ID: Matrix Spike Duplicate
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 Federal Unit 21H

Job ID: 880-59114-1
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 Federal Unit 21H

Job ID: 880-59114-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 111753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59114-1	Backfill	Total/NA	Solid	8021B	111766
MB 880-111766/5-A	Method Blank	Total/NA	Solid	8021B	111766
LCS 880-111766/1-A	Lab Control Sample	Total/NA	Solid	8021B	111766
LCSD 880-111766/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111766
880-59079-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	111766
880-59079-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	111766

Prep Batch: 111766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59114-1	Backfill	Total/NA	Solid	5035	
MB 880-111766/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111766/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111766/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-59079-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-59079-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 111907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59114-1	Backfill	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 111864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59114-1	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-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-59113-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59114-1	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-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	111864
880-59113-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	111864

Analysis Batch: 111976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59114-1	Backfill	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 111853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59114-1	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 Federal Unit 21H

Job ID: 880-59114-1
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
880-59114-1	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 Federal Unit 21H

Job ID: 880-59114-1
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: 880-59114-1

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			4.96 g	5 mL	111766	06/09/25 16:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111753	06/09/25 21:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111907	06/09/25 21:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			111976	06/11/25 03:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 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 03:11	TKC	EET MID
Soluble	Leach	DI Leach			4.96 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 10:51	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
Job ID: 880-59114-1
Project/Site: Lea Federal Unit 21H
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: 880-59114-1
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

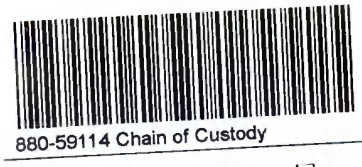
Sample Summary

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

Job ID: 880-59114-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-59114-1	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

Prog... ☐PRP ☐rownfields ☐RC ☐perfund ☐
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:	48 hr
Sampler's Name:	GPJ		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:	TNS	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.0	
Total Containers:		Corrected Temperature:	4.9	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
Backfill	6/9/2025		X		C	1	X	X	X		

ANALYSIS REQUEST / Parameters / Pres. Code

Preservative Codes

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

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			6/9/25 1532

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-59114-1
SDG Number: Lea County, New Mexico

Login Number: 59114
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	

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

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504730
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2509571354**
Incident Name	**NAPP2509571354 LEA FEDERAL UNIT 21H @ D-12-20S-34E**
Incident Type	**Oil Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Lea Federal Unit 21H
Date Release Discovered	04/05/2025
Surface Owner	Federal

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: Equipment Failure | Other (Specify) | Crude Oil | Released: 21 BBL | Recovered: 15 BBL | Lost: 6 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	The Lea West TPG facility instrument air compressor went down. The lack of instrument air prevented the flare scrubber from being able to dump, causing fluid to burp out of the flare and onto the edge of the Lea Unit 21H well pad, and over spraying into the pasture due to the high winds. A total of 21 barrels oil was released out of the flare. Vac trucks were able to recover 15 barrels of oil from the well pad and pasture. Impacted soils will be scheduled for remediation in the coming weeks. Released: 21 barrels oil Recovered: 15 barrels oil

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator:	OGRID:
Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	330396
	Action Number: 504730
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: 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: 504730
	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	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2450
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2200
GRO+DRO (EPA SW-846 Method 8015M)	2197
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	120
What is the estimated volume (in cubic yards) that will be remediated	8
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:	OGRID:
Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	330396
	Action Number: 504730
	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)

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QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**471084**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/09/2025**
What was the (estimated) number of samples that were to be gathered	**26**
What was the sampling surface area in square feet	**4500**

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	120
What was the total volume (cubic yards) remediated	8
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, contaminated areas in the pasture were remediated per NMAC 19.15.29.12. This well location is currently being P/A'd but due to the well pads being active to the north, utilizing the west side of the well pad and access road which is overtop of the areas of S-1 & S-2, those areas will be reclaimed once the Lea Unit #44H-#45H are P/A'd.

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)

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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: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504730
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	9/24/2025