



SITE INFORMATION

Closure Report
New Mexico DD State Com #004 (02.05.2016)
Incident ID: NAB1604026777
Eddy County, New Mexico
Unit J Sec 32 T24S R26E
32.1710014°, -104.3118362°

Point of Release:
Dump Valve malfunctioned on a 3-phase separator.
Release Date: 02.05.2016
Volume Released: 150 Barrels of Produced Water
Volume Recovered: 140 Barrels of Produced Water

CARMONA RESOURCES



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

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



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March 28, 2024

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Report
New Mexico DD State Com #004 (02.05.2016)
Incident ID: NAB1604026777
Cimarex Energy Co. of Colorado
Site Location: Unit J, S32, T24S, R26E
(Lat 32.1710014°, Long -104.3118362°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the New Mexico DD State Com #004. The site is located at 32.1710014°, -104.3118362° within Unit J, S32, T24S, R26E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on February 5, 2016, caused by a malfunction at a 3-phase separator. It resulted in approximately one hundred fifty (150) barrels of produced water, and one hundred forty (140) barrels of produced water were recovered. The impacted area was located on the pad. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.52 miles Northwest of the site in S32, T24S, R26E and was last measured in 2022. The well has a reported depth to groundwater of 104.42' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Historical Assessment – Work Plan

On March 15, 2016, Talon LPE (Talon) performed site assessment activities to evaluate soil impacts. To assess the vertical extent, three (3) sample points (S-1 through S-3) were advanced to depths ranging from the surface to 3.0' bgs. 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 Cardinal Laboratories in Hobbs, New Mexico. 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 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1. Based off the assessment results, a work plan was created, submitted to the Oil Conservation Division, but no evidence of remediation taking place. Refer to Appendix F for the historical work plan.

5.0 Site Assessment Activities

Initial Soil Assessment

On May 12, 2023, Carmona Resources, LLC performed site assessment activities to evaluate if any soil impacts remain onsite following the submittal of the work plan in 2016. To assess the vertical and horizontal extent, four (4) test trenches (T-1 through T-4) and six (6) horizontal sample points (H-1 through H-6) were advanced to depths ranging from the surface to 9.0' bgs. Test trenches (T-1, T-2, and T-4) were installed in areas to correlate with historical sample locations, mentioned above. See Figure 4 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Labs in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

Horizontal Delineation

The areas of T-2 through T-4 and H-1 through H-4 were below regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Vertical Delineation

The area of T-1 was vertically delineated during the initial soil assessment and showed elevated chloride concentrations ranging from 19,000 mg/kg to 1,940 mg/kg from the surface to 7.0' bgs. The historical sample areas of S-2 and S-3 did not show any impact remaining onsite. Refer to Table 1.

6.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via web portal on March 17, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of T-1 was excavated to a depth of 8.0' bgs. A total of two (2) confirmation floor samples (CS-1 through CS-2) and six (6) sidewall samples (SW-1 through SW-6) 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. The excavation depths and confirmation sample locations are shown in Figure 5.



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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 140 cubic yards of material were excavated and transported offsite for proper disposal.

7.0 Conclusions

Based on the remediation results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Cimarex formally requests closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

Ashton Thielke
Sr. Project Manager

Clinton Merritt
Sr. Project Manager

FIGURES

CARMONA RESOURCES

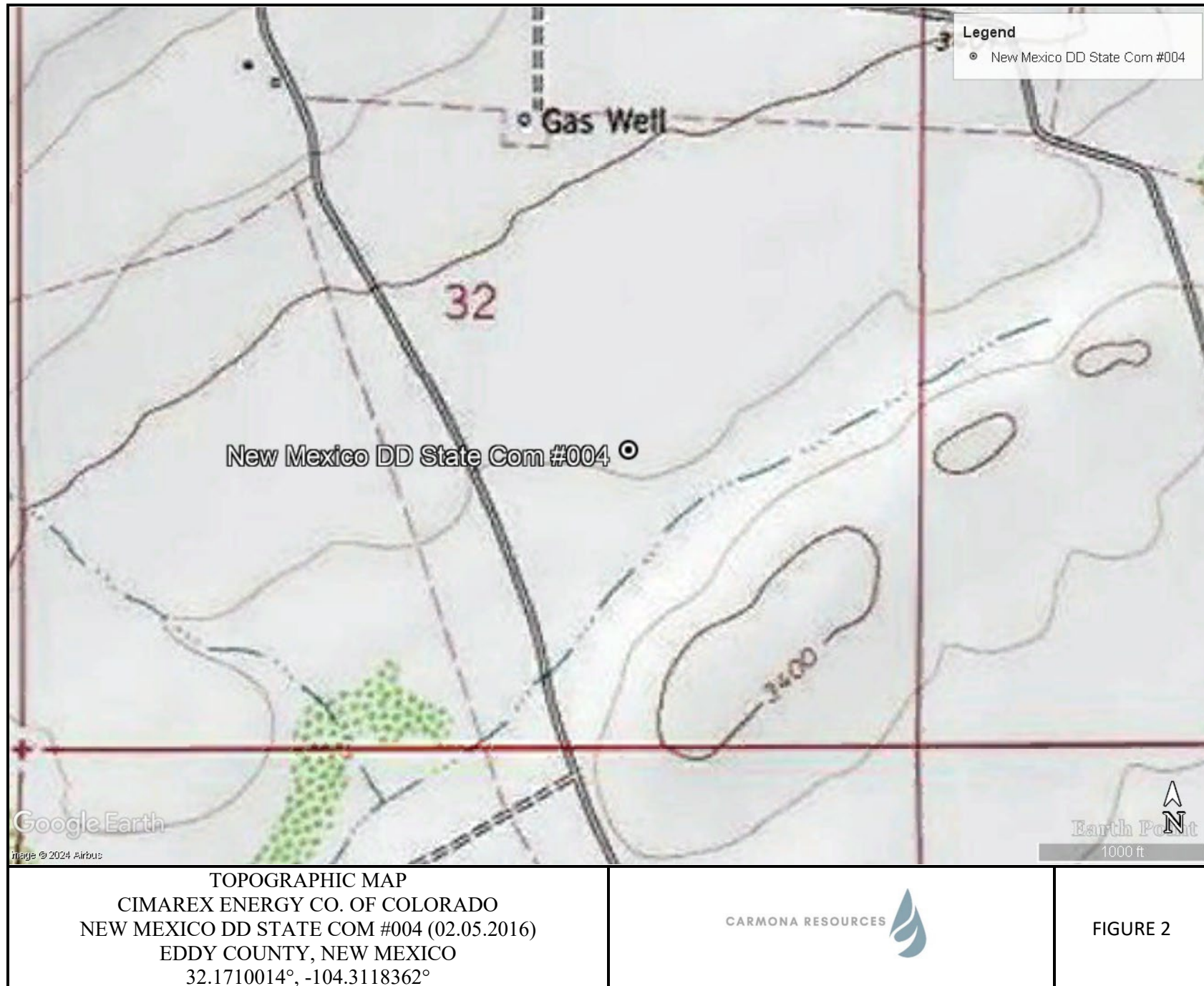




OVERVIEW MAP
 CIMAREX ENERGY CO. OF COLORADO
 NEW MEXICO DD STATE COM #004 (02.05.2016)
 EDDY COUNTY, NEW MEXICO
 32.1710014°, -104.3118362°



FIGURE 1











APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex
New Mexico DD State Com #004
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	3/16/2016	0	115	2,130	-	2,245	<0.050	0.188	<0.050	4.82	5.01	3,480
	"	1.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	240
	"	2.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	-
	"	3.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	-
T-1	5/12/2023	0-1.0	<49.9	62.8	<49.9	62.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	19,000
	"	1.0-1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11,400
	"	1.5-2.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	9,570
	"	2.0-3.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	6,720
	"	3.0-4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,800
	"	4.0-5.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,150
	"	5.0-6.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,250
	"	6.0-7.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,940
S-2	3/16/2016	0	25.3	3,900	-	3,925	<0.050	0.073	0.064	1.07	1.21	19,600
	"	1.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	80
	"	2.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	-
	"	3.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	-
T-2	5/12/2023	0-1.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	73.0
	"	1.0-1.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	75.3
	"	1.5-2.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	96.6
T-3	5/12/2023	0-1.0	<49.9	50.2	<49.9	50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	96.7
	"	1.0-1.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	70.4
	"	1.5-2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	86.1
S-3	3/16/2016	0	74.0	6,790	-	6,864	<0.050	<0.050	<0.050	<0.150	<0.300	42,400
	"	1.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	848
	"	2.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	608
	"	3.0	<10.0	<10.0	-	<10.0	-	-	-	-	-	272
T-4	5/12/2023	0-1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	85.9
	"	1.0-1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	91.9
	"	1.5-2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	85.6
Regulatory Criteria^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Soil Sample

(T) Test Trench

Historically Removed

Removed

Table 1
Cimarex
New Mexico DD State Com #004
Eddy 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	5/12/2023	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	79.5
H-2	5/12/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	56.2
H-3	5/12/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	135
H-4	5/12/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	64.8
H-5	5/12/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	58.5
H-6	5/12/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	87.4
Regulatory Criteria ^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(H) Horizontal Sample

Table 2
Cimarex
New Mexico DD State Com #004
Eddy 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	3/20/2024	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-2	3/20/2024	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-1	3/20/2024	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-2	3/20/2024	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-3	3/20/2024	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-4	3/20/2024	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-5	3/20/2024	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-6	3/20/2024	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
Regulatory Criteria^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) - Confirmation Floor Sample

(SW) - Confirmation Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 1

Facility: New Mexico DD State Com #004
(02.05.2016)

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-1 & CS-2.



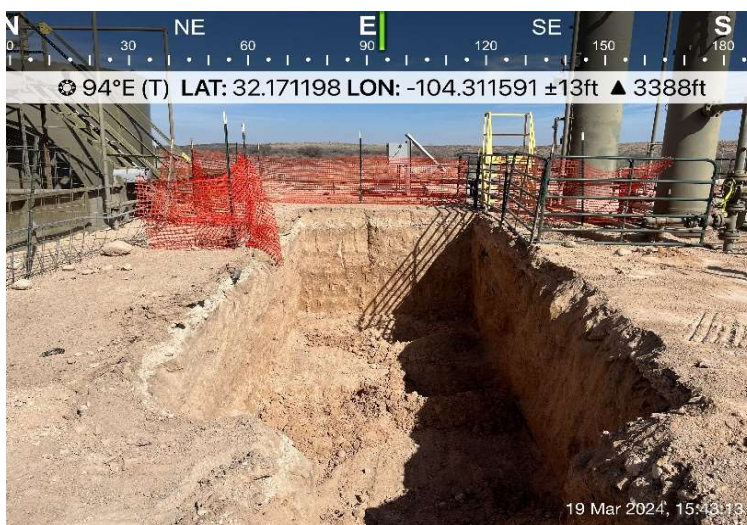
Photograph No. 2

Facility: New Mexico DD State Com #004
(02.05.2016)

County: Eddy County, New Mexico

Description:

View East, area of CS-1 & CS-2.



Photograph No. 3

Facility: New Mexico DD State Com #004
(02.05.2016)

County: Eddy County, New Mexico

Description:

View West, area of CS-1 & CS-2.



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

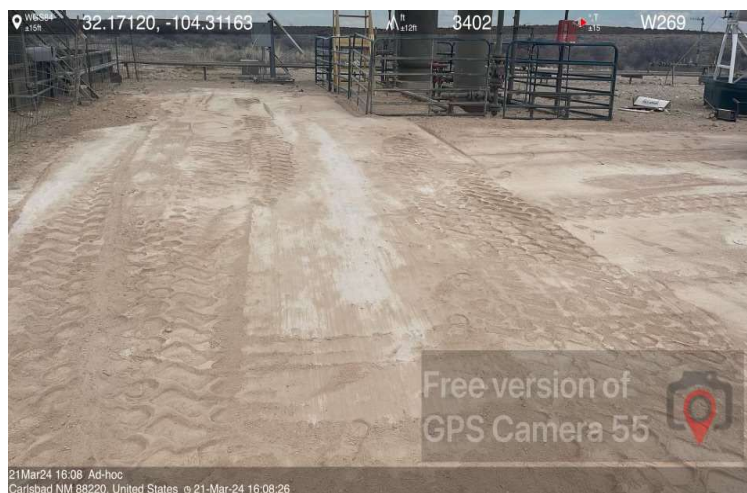
Photograph No. 4

Facility: New Mexico DD State Com #004
(02.05.2016)

County: Eddy County, New Mexico

Description:

View East, backfilled area.



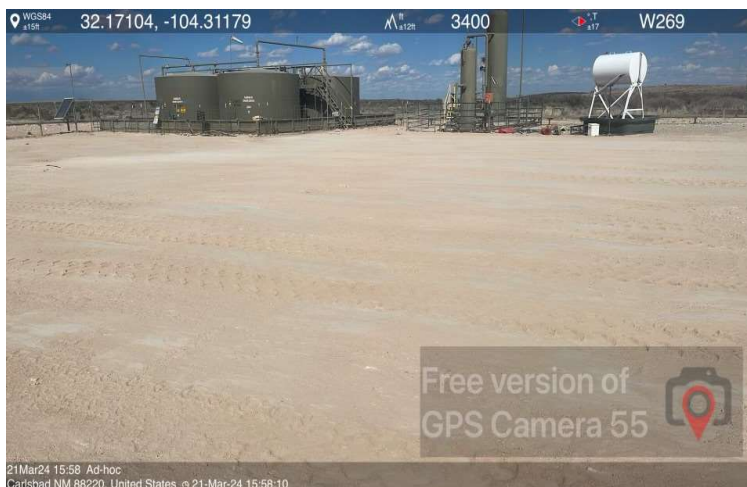
Photograph No. 5

Facility: New Mexico DD State Com #004
(02.05.2016)

County: Eddy County, New Mexico

Description:

View Northeast, backfilled area.



APPENDIX C

CARMONA RESOURCES



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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB 1624026777 **162883** **OPERATOR** ☒ Initial Report ☒ Final Report

Name of Company Cimarx Energy	Contact Christine Alderman
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059
Facility Name New Mexico DD State Com 4	Facility Type production

Surface Owner	Mineral Owner	API No. 30-015-34704
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	32	24S	26E	1650	S	1650	E	Eddy

Latitude 32.17100 Longitude -104.31183

NATURE OF RELEASE

Type of Release produced water	Volume of Release 150 bbls	Volume Recovered 140 bbls
Source of Release tank	Date and Hour of Occurrence 2/5/2016	Date and Hour of Discovery 2/5/2016
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Heather Patterson	
By Whom? Christine Alderman	Date and Hour 2/5/2016	10:27 AM NM OIL CONSERVA ARTESIA DISTRICT FEB 08 2016 RECEIVED
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The dump valve malfunctioned on a 3-phase separator. The pressure entering the tank caused it to rupture around the bottom of the fiberglass tank.

Describe Area Affected and Cleanup Action Taken.*

All but 8 bbls of fluid were contained within a lined berm and were recovered. The fluids stayed on location and were recovered.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <u>Christine Alderman</u>	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: ESH Supervisor	Approval Date: 2/9/16	Expiration Date: N/A
E-mail Address: calderman@cimarx.com	Conditions of Approval: FINAL	Attached <input type="checkbox"/>
Date: 2/8/2016 Phone: 432-853-7059		

* Attach Additional Sheets If Necessary

2RP-3537

Patterson, Heather, EMNRD

From: Christine Alderman <calderman@cimarex.com>
Sent: Monday, February 08, 2016 1:24 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: Gloria Garza
Subject: FW: New Mexico DD State Com 4 (30-015-34704)
Attachments: 20160208133811778.pdf

Here is the C-141.

Thank you!

Christine Alderman

ESH Supervisor – Permian Basin

Mobile: 432-853-7059

Office: 432-620-1982



From: Christine Alderman
Sent: Friday, February 05, 2016 11:29 AM
To: mike.bratcher@state.nm.us; Patterson, Heather, EMNRD (Heather.Patterson@state.nm.us)
Cc: Gloria Garza
Subject: New Mexico DD State Com 4 (30-015-34704)

We had a release this morning on the above named battery. A dump valve got stuck open causing a 300 bbl fiberglass tank to overpressure and rupture within a lined containment. The bottom of the fiberglass tank split releasing 150 bbls of produced water into the containment. Recovery of the fluids are happening now.

A C-141 will follow when I have the recovery volumes.

Thank you.

Christine Alderman

ESH Supervisor – Permian Basin

Mobile: 432-853-7059

Office: 432-620-1982



Bratcher, Mike, EMNRD

From: Christine Alderman <calderman@cimarex.com>
Sent: Friday, February 05, 2016 10:27 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: Gloria Garza
Subject: New Mexico DD State Com 4 (30-015-34704)

We had a release this morning on the above named battery. A dump valve got stuck open causing a 300 bbl fiberglass tank to overpressure and rupture within a lined containment. The bottom of the fiberglass tank split releasing 150 bbls of produced water into the containment. Recovery of the fluids are happening now.

A C-141 will follow when I have the recovery volumes.

Thank you.

Christine Alderman

ESH Supervisor – Permian Basin

Mobile: 432-853-7059

Office: 432-620-1982



Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <div><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> Laboratory data including chain of custody</div>

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 323906

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 323906
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1604026777
Incident Name	NAB1604026777 2016 MAJOR A SWS @ 30-015-34704
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-34704] NEW MEXICO DD STATE COM #004

Location of Release Source	
Site Name	Unavailable.
Date Release Discovered	02/05/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	420
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Miranda Milwee - 432-813-8988
Please provide any information necessary for navigation to sampling site	32.1710014,-104.3118362 Open Access, Possible H2S

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 323906

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 323906
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lluig	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.	3/17/2024

APPENDIX D

CARMONA RESOURCES

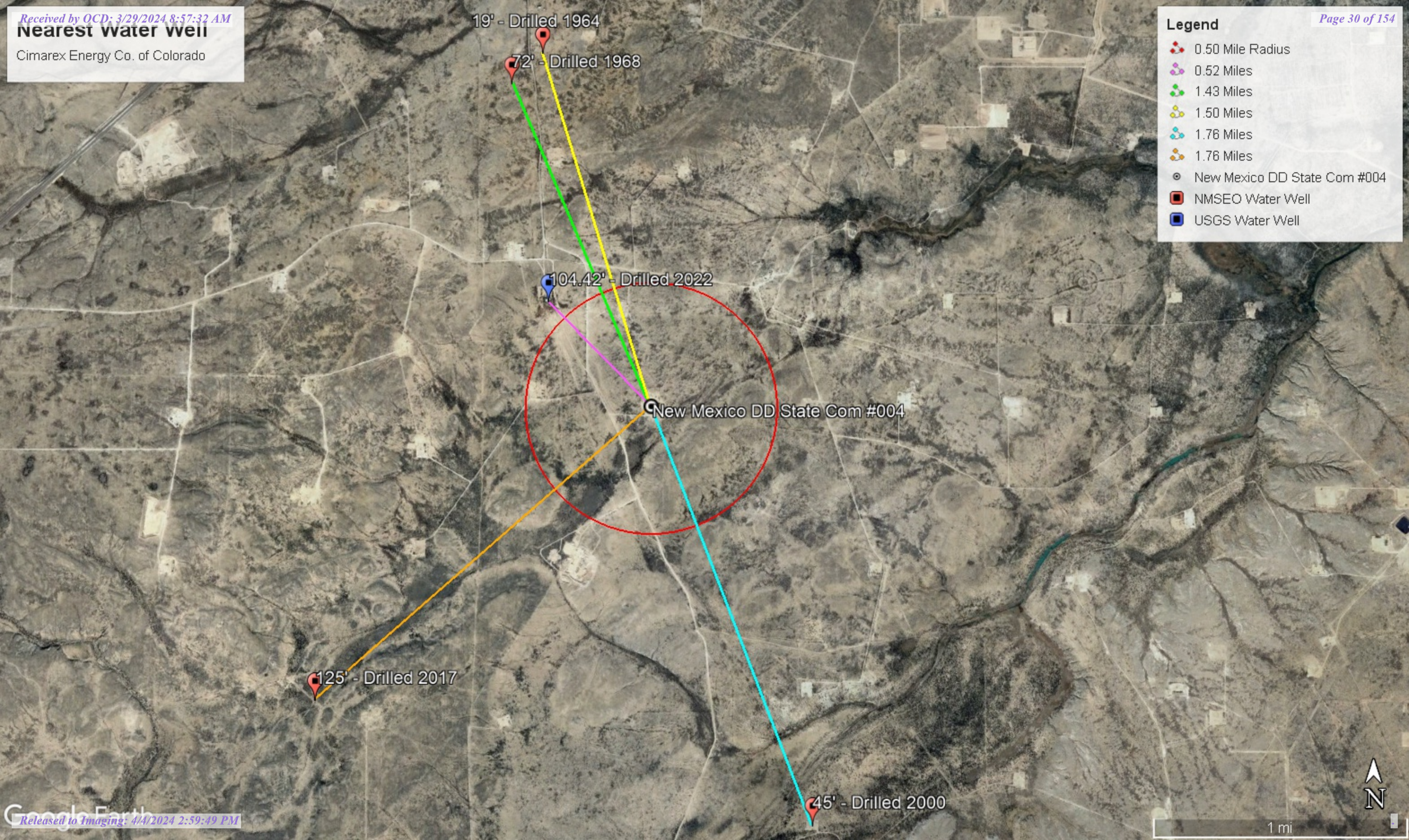


Nearest water well

Cimarex Energy Co. of Colorado

Legend



- 0.50 Mile Radius
- 0.52 Miles
- 1.43 Miles
- 1.50 Miles
- 1.76 Miles
- 1.76 Miles
- New Mexico DD State Com #004
- NMSEO Water Well
- USGS Water Well



High Karst

Cimarex Energy Co. of Colorado

Legend

-  High
-  New Mexico DD State Com #004

New Mexico DD State Com #004





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02700	C	ED		1	1	3	29	24S	26E	563844	3561400*	2061	180		
C 01386	C	ED			3	1	29	24S	26E	563937	3561702*	2288	84	72	12
C 01202	C	ED				1	29	24S	26E	564138	3561903*	2404	75	19	56
C 02675	C	ED		1	4	1	09	25S	26E	565907	3556978*	2830	180	45	135
C 04036 POD1	C	ED		1	4	3	06	25S	26E	562745	3557733	2838	160	125	35
C 04050 POD1	CUB	ED		1	4	3	06	25S	26E	562695	3557776	2848	165	125	40
C 04049 POD1	CUB	ED		3	2	3	06	25S	26E	562592	3557864	2872	165	120	45
C 01089	C	ED		3	4	1	03	25S	26E	567505	3558398*	2900	96	45	51
C 03285	C	ED		4	4	2	07	25S	26E	563713	3556658	3173	84	60	24
C 03200 POD1	C	ED		2	3	4	34	24S	26E	568206	3559349	3345	80	52	28
C 01454	C	ED			1	3	20	24S	26E	563917	3562912*	3434	87	70	17
C 03258	C	ED		1	1	4	07	25S	26E	563073	3556546*	3555	360		
C 04270 POD2	CUB	ED		1	4	1	20	26S	26E	564309	3563438	3866	59		

Average Depth to Water: **73 feet**

Minimum Depth: **19 feet**

Maximum Depth: **125 feet**

Record Count: 13

UTMNA83 Radius Search (in meters):

Easting (X): 564871.63

Northing (Y): 3559612.68

Radius: 4000

*UTM location was derived from PLSS - see Help

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5/11/23 1:30 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
				Groundwater	New Mexico	GO	

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321039104185201

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321039104185201 24S.26E.32.141121

Eddy County, New Mexico
Latitude 32°10'37.9", Longitude 104°19'08.6" NAD83
Land-surface elevation 3,430.20 feet above NGVD29
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1948-12-01			D 62610		3320.80	NGVD29	1		Z	
1948-12-01			D 62611		3322.48	NAVD88	1		Z	
1948-12-01			D 72019	109.40			1		Z	
1978-01-05			D 62610		3318.16	NGVD29	1		Z	
1978-01-05			D 62611		3319.84	NAVD88	1		Z	
1978-01-05			D 72019	112.04			1		Z	
1983-01-10			D 62610		3316.87	NGVD29	1		Z	
1983-01-10			D 62611		3318.55	NAVD88	1		Z	
1983-01-10			D 72019	113.33			1		Z	
1987-10-21			D 62610		3322.52	NGVD29	1		Z	
1987-10-21			D 62611		3324.20	NAVD88	1		Z	
1987-10-21			D 72019	107.68			1		Z	
1993-02-05			D 62610		3321.97	NGVD29	1		S	
1993-02-05			D 62611		3323.65	NAVD88	1		S	

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1993-02-05	D	72019	108.23		1	S	
1998-01-09	D	62610	3320.32	NGVD29	1	S	
1998-01-09	D	62611	3322.00	NAVD88	1	S	
1998-01-09	D	72019	109.88		1	S	
2003-02-05	D	62610	3318.81	NGVD29	1	S	USGS
2003-02-05	D	62611	3320.49	NAVD88	1	S	USGS
2003-02-05	D	72019	111.39		1	S	USGS
2013-01-08 22:20 UTC	m	62610	3316.97	NGVD29	1	S	USGS
2013-01-08 22:20 UTC	m	62611	3318.65	NAVD88	1	S	USGS
2013-01-08 22:20 UTC	m	72019	113.23		1	S	USGS
2022-01-12 00:42 UTC	m	62610	3325.78	NGVD29	1	S	USGS
2022-01-12 00:42 UTC	m	62611	3327.46	NAVD88	1	S	USGS
2022-01-12 00:42 UTC	m	72019	104.42		1	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=321039104185201&agency_cd=USGS&format=html)Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2023-05-11 15:44:21 EDT

0.3 0.25 nadww02



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01386	3	1	29	24S	26E	563937	3561702*	

x

Driller License: 30

Driller Company: BARRON, EMMETT

Driller Name: BARRON, EMMETT

Drill Start Date: 07/25/1968

Drill Finish Date: 07/30/1968

Plug Date:

Log File Date: 09/03/1968

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 84 feet

Depth Water: 72 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	82	84	Other/Unknown

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01202			1	29	24S	26E	564138	3561903*
<hr/>									
Driller License:	30	Driller Company:		BARRON, EMMETT					
Driller Name:	BARRON, EMMETT								
Drill Start Date:	06/24/1964	Drill Finish Date:		06/27/1964		Plug Date:			
Log File Date:	09/08/1964	PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:	7.00	Depth Well:		75 feet		Depth Water:		19 feet	
<hr/>									
Water Bearing Stratifications:		Top	Bottom	Description					
		68	70	Other/Unknown					

*UTM location was derived from PLSS - see Help

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5/11/23 1:33 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 02675	1	4	1	09	25S	26E	565907	3556978*

x

Driller License: 1107 **Driller Company:** DUBOSE DRILLING, INC.**Driller Name:** BILL DUBOSE, JR.**Drill Start Date:** 02/09/2000 **Drill Finish Date:** 02/15/2000 **Plug Date:****Log File Date:** 03/01/2000 **PCW Rev Date:** **Source:** Shallow**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:** 20 GPM**Casing Size:** 6.00 **Depth Well:** 180 feet **Depth Water:** 45 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	25	85	Shallow Alluvium/Basin Fill

x

Casing Perforations:	Top	Bottom
	60	80
	140	180

x

Meter Number:	1288	Meter Make:	UNKNOWN
Meter Serial Number:	NONE	Meter Multiplier:	10.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Barrels 42 gal.	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

x

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/01/2000	2000	26874	A	ms		0
04/01/2000	2000	26993	A	ms	project completed	0.153

**YTD Meter Amounts:	Year	Amount
	2000	0.153

x

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	04036 POD1	1	4	3	06	25S	26E	562745	3557733

x

Driller License:

1690

Driller Company:

VISION RESOURCES, INC

Driller Name:

JASON MALEY

Drill Start Date:

04/01/2017

Drill Finish Date:

04/02/2017

Plug Date:

Log File Date:

04/07/2017

PCW Rev Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

300 GPM

Casing Size:

6.00

Depth Well:

160 feet

Depth Water:

125 feet

x

Water Bearing Stratifications:

Top

Bottom

Description

122

160

Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top

Bottom

100

160

x

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

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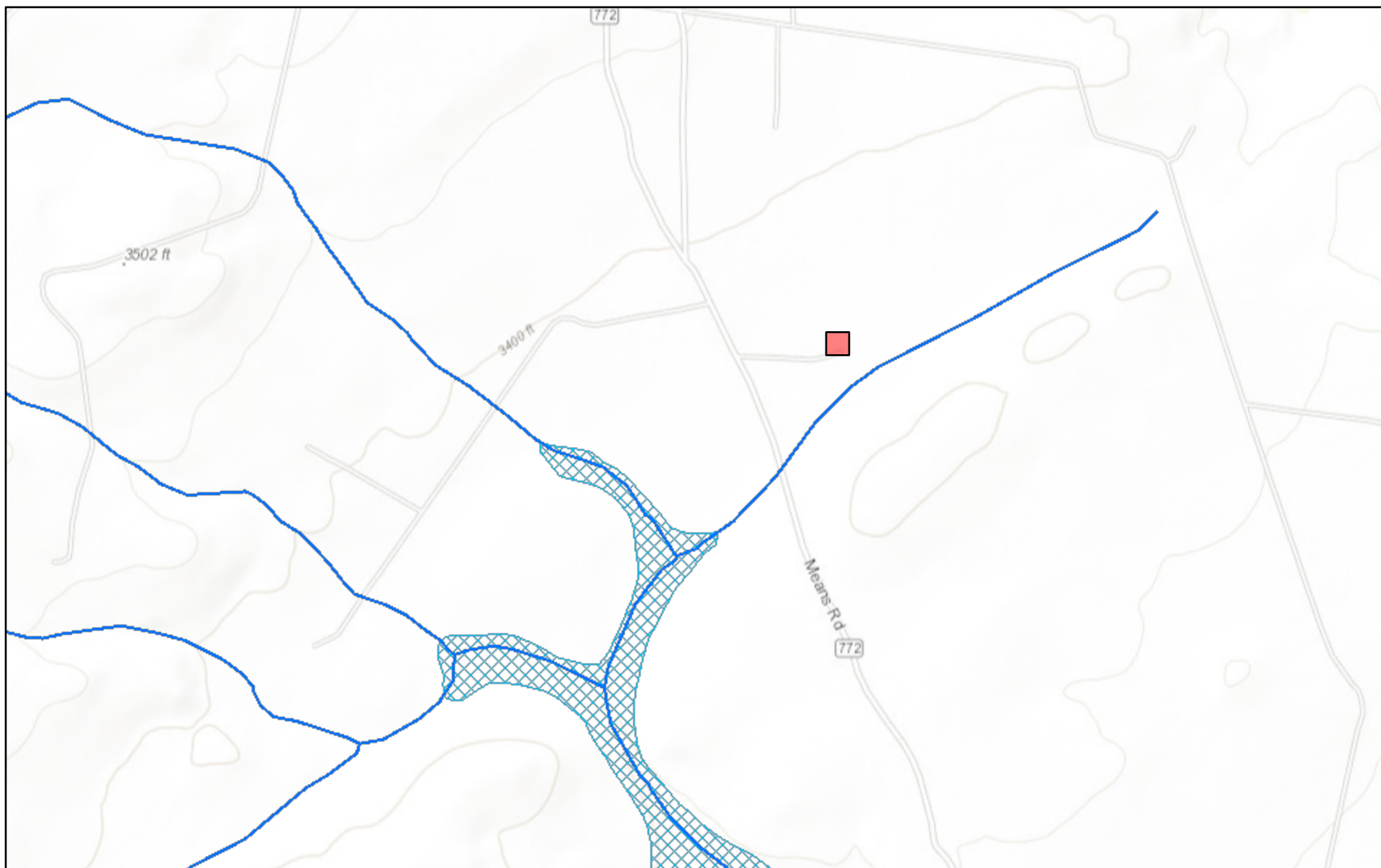
POINT OF DIVERSION SUMMARY

nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=C&nbr=04036&suffix=POD1

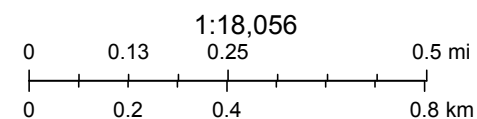
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1/1

New Mexico NFHL Data



May 11, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/19/2023 11:43:06 AM

JOB DESCRIPTION

New Mexico DD State Com #004 (02.05.16)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-28417-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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
5/19/2023 11:43:06 AM

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

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Laboratory Job ID: 880-28417-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.

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.
α	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/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Job ID: 880-28417-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-28417-1****Receipt**

The samples were received on 5/15/2023 1:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-28417-1), T-1 (1'-1.5') (880-28417-2), T-1 (1.5'-2') (880-28417-3), T-1 (2'-3') (880-28417-4), T-1 (3'-4') (880-28417-5), T-1 (4'-5') (880-28417-6), T-1 (5'-6') (880-28417-7), T-1 (6'-7') (880-28417-8), T-1 (7'-8') (880-28417-9), T-1 (8'-9') (880-28417-10), T-2 (0-1') (880-28417-11), T-2 (1'-1.5') (880-28417-12), T-2 (1.5'-2') (880-28417-13), T-3 (0-1') (880-28417-14), T-3 (1'-1.5') (880-28417-15), T-3 (1.5'-2') (880-28417-16), T-4 (0-1') (880-28417-17), T-4 (1'-1.5') (880-28417-18) and T-4 (1.5'-2') (880-28417-19).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53678 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-28417-1), T-1 (1'-1.5') (880-28417-2), T-1 (1.5'-2') (880-28417-3), T-1 (2'-3') (880-28417-4), T-1 (3'-4') (880-28417-5), T-1 (4'-5') (880-28417-6), T-1 (5'-6') (880-28417-7), T-1 (6'-7') (880-28417-8), T-1 (7'-8') (880-28417-9), T-1 (8'-9') (880-28417-10), T-2 (0-1') (880-28417-11), T-2 (1'-1.5') (880-28417-12), T-2 (1.5'-2') (880-28417-13), T-3 (0-1') (880-28417-14), T-3 (1'-1.5') (880-28417-15), T-3 (1.5'-2') (880-28417-16), T-4 (0-1') (880-28417-17), T-4 (1'-1.5') (880-28417-18), T-4 (1.5'-2') (880-28417-19), (CCV 880-53678/2), (CCV 880-53678/20), (CCV 880-53678/33), (LCS 880-53578/1-A), (LCSD 880-53578/2-A), (880-28389-A-1-A MB), (880-28417-A-1-G MS) and (880-28417-A-1-H MSD). 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 880-53578 and analytical batch 880-53678 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 laboratory control sample duplicate (LCSD) for preparation batch 880-53578 and analytical batch 880-53678 recovered outside control limits for the following analytes: Toluene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53485 and analytical batch 880-53552 was outside the upper control limits.

Method 8015MOD_NM: CCV biased low for Diesel Range Organics (Over C10-C28) however an acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported.(CCV 880-53552/5)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-53485 and analytical batch 880-53552 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-53476 and analytical batch 880-53585 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Job ID: 880-28417-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-28417-1

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		05/17/23 10:55	05/18/23 18:15	1
Toluene	<0.00199	U F1 *+	0.00199		mg/Kg		05/17/23 10:55	05/18/23 18:15	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		05/17/23 10:55	05/18/23 18:15	1
m-Xylene & p-Xylene	<0.00398	U F1 *+	0.00398		mg/Kg		05/17/23 10:55	05/18/23 18:15	1
o-Xylene	<0.00199	U F1 *+	0.00199		mg/Kg		05/17/23 10:55	05/18/23 18:15	1
Xylenes, Total	<0.00398	U F1 *+	0.00398		mg/Kg		05/17/23 10:55	05/18/23 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130	05/17/23 10:55	05/18/23 18:15	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	05/17/23 10:55	05/18/23 18:15	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			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.8		49.9		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	49.9		mg/Kg		05/16/23 12:56	05/17/23 11:06	1
Diesel Range Organics (Over C10-C28)	62.8		49.9		mg/Kg		05/16/23 12:56	05/17/23 11:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/16/23 12:56	05/17/23 11:06	1
o-Terphenyl	111		70 - 130	05/16/23 12:56	05/17/23 11:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19000	F1	248		mg/Kg			05/17/23 23:05	50

Client Sample ID: T-1 (1'-1.5')

Lab Sample ID: 880-28417-2

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/17/23 10:55	05/18/23 18:41	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		05/17/23 10:55	05/18/23 18:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 18:41	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		05/17/23 10:55	05/18/23 18:41	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		05/17/23 10:55	05/18/23 18:41	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		05/17/23 10:55	05/18/23 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	223	S1+	70 - 130	05/17/23 10:55	05/18/23 18:41	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/17/23 10:55	05/18/23 18:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (1'-1.5')

Lab Sample ID: 880-28417-2

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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			05/19/23 12:14	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			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 12:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 12:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/16/23 12:56	05/17/23 12:11	1
o-Terphenyl	112		70 - 130				05/16/23 12:56	05/17/23 12:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11400		99.8		mg/Kg			05/17/23 23:21	20

Client Sample ID: T-1 (1.5'-2')

Lab Sample ID: 880-28417-3

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:55	05/18/23 19:06	1
Toluene	<0.00201	U **	0.00201		mg/Kg		05/17/23 10:55	05/18/23 19:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:55	05/18/23 19:06	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		05/17/23 10:55	05/18/23 19:06	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		05/17/23 10:55	05/18/23 19:06	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		05/17/23 10:55	05/18/23 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	241	S1+	70 - 130				05/17/23 10:55	05/18/23 19:06	1
1,4-Difluorobenzene (Surr)	80		70 - 130				05/17/23 10:55	05/18/23 19:06	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			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 12:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 12:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (1.5'-2')

Lab Sample ID: 880-28417-3

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/16/23 12:56	05/17/23 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/16/23 12:56	05/17/23 12:33	1
o-Terphenyl	108		70 - 130				05/16/23 12:56	05/17/23 12:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9570		50.2		mg/Kg			05/17/23 23:26	10

Client Sample ID: T-1 (2'-3')

Lab Sample ID: 880-28417-4

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/17/23 10:55	05/18/23 19:32	1
Toluene	<0.00202	U **	0.00202		mg/Kg		05/17/23 10:55	05/18/23 19:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/17/23 10:55	05/18/23 19:32	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		05/17/23 10:55	05/18/23 19:32	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		05/17/23 10:55	05/18/23 19:32	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		05/17/23 10:55	05/18/23 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	219	S1+	70 - 130				05/17/23 10:55	05/18/23 19:32	1
1,4-Difluorobenzene (Surr)	75		70 - 130				05/17/23 10:55	05/18/23 19:32	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			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 12:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 12:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/16/23 12:56	05/17/23 12:55	1
o-Terphenyl	108		70 - 130				05/16/23 12:56	05/17/23 12:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6720		50.3		mg/Kg			05/17/23 23:32	10

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (3'-4')

Lab Sample ID: 880-28417-5

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/18/23 19:58	1
Toluene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/18/23 19:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/18/23 19:58	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/18/23 19:58	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/18/23 19:58	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/18/23 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	215	S1+	70 - 130	05/17/23 10:55	05/18/23 19:58	1
1,4-Difluorobenzene (Surr)	79		70 - 130	05/17/23 10:55	05/18/23 19:58	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			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 13:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 13:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	05/16/23 12:56	05/17/23 13:16	1
o-Terphenyl	109		70 - 130	05/16/23 12:56	05/17/23 13:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4800		49.8		mg/Kg			05/17/23 23:37	10

Client Sample ID: T-1 (4'-5')

Lab Sample ID: 880-28417-6

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/18/23 20:24	1
Toluene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/18/23 20:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/18/23 20:24	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/18/23 20:24	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/18/23 20:24	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/18/23 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	234	S1+	70 - 130	05/17/23 10:55	05/18/23 20:24	1
1,4-Difluorobenzene (Surr)	80		70 - 130	05/17/23 10:55	05/18/23 20:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (4'-5')

Lab Sample ID: 880-28417-6

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/19/23 12:14	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			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/16/23 12:56	05/17/23 13:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 12:56	05/17/23 13:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/23 12:56	05/17/23 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/16/23 12:56	05/17/23 13:38	1
o-Terphenyl	105		70 - 130				05/16/23 12:56	05/17/23 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3150		25.0		mg/Kg			05/17/23 23:53	5

Client Sample ID: T-1 (5'-6')

Lab Sample ID: 880-28417-7

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/17/23 10:55	05/18/23 20:50	1
Toluene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/18/23 20:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 20:50	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		05/17/23 10:55	05/18/23 20:50	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/18/23 20:50	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		05/17/23 10:55	05/18/23 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	237	S1+	70 - 130				05/17/23 10:55	05/18/23 20:50	1
1,4-Difluorobenzene (Surr)	86		70 - 130				05/17/23 10:55	05/18/23 20:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/19/23 12:14	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			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (5'-6')

Lab Sample ID: 880-28417-7

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/16/23 12:56	05/17/23 14:00	1
o-Terphenyl	111		70 - 130				05/16/23 12:56	05/17/23 14:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3250		25.0		mg/Kg			05/17/23 23:58	5

Client Sample ID: T-1 (6'-7')

Lab Sample ID: 880-28417-8

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/17/23 10:55	05/18/23 21:15	1
Toluene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/18/23 21:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 21:15	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		05/17/23 10:55	05/18/23 21:15	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/18/23 21:15	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		05/17/23 10:55	05/18/23 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	228	S1+	70 - 130				05/17/23 10:55	05/18/23 21:15	1
1,4-Difluorobenzene (Surr)	81		70 - 130				05/17/23 10:55	05/18/23 21:15	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			05/19/23 12:14	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			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/16/23 12:56	05/17/23 14:21	1
o-Terphenyl	109		70 - 130				05/16/23 12:56	05/17/23 14:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		25.0		mg/Kg			05/18/23 00:04	5

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (7'-8')

Lab Sample ID: 880-28417-9

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/18/23 21:41	1
Toluene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/18/23 21:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/18/23 21:41	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/18/23 21:41	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/18/23 21:41	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/18/23 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	219	S1+	70 - 130	05/17/23 10:55	05/18/23 21:41	1
1,4-Difluorobenzene (Surr)	78		70 - 130	05/17/23 10:55	05/18/23 21:41	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			05/19/23 12:14	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			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/16/23 12:56	05/17/23 14:43	1
o-Terphenyl	112		70 - 130	05/16/23 12:56	05/17/23 14:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	428		5.01		mg/Kg			05/18/23 00:09	1

Client Sample ID: T-1 (8'-9')

Lab Sample ID: 880-28417-10

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/18/23 22:07	1
Toluene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/18/23 22:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/18/23 22:07	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/18/23 22:07	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/18/23 22:07	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/18/23 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	224	S1+	70 - 130	05/17/23 10:55	05/18/23 22:07	1
1,4-Difluorobenzene (Surr)	73		70 - 130	05/17/23 10:55	05/18/23 22:07	1

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (8'-9')

Lab Sample ID: 880-28417-10

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 15:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				05/16/23 12:56	05/17/23 15:04	1
o-Terphenyl	107		70 - 130				05/16/23 12:56	05/17/23 15:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		5.04		mg/Kg			05/18/23 00:14	1

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-28417-11

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/17/23 10:55	05/19/23 00:17	1
Toluene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/19/23 00:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/19/23 00:17	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		05/17/23 10:55	05/19/23 00:17	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/19/23 00:17	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		05/17/23 10:55	05/19/23 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	212	S1+	70 - 130				05/17/23 10:55	05/19/23 00:17	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				05/17/23 10:55	05/19/23 00:17	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			05/19/23 12:14	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			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/16/23 12:56	05/17/23 15:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 12:56	05/17/23 15:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-28417-11

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/16/23 12:56	05/17/23 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				05/16/23 12:56	05/17/23 15:48	1
o-Terphenyl	125		70 - 130				05/16/23 12:56	05/17/23 15:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.0		4.98		mg/Kg			05/18/23 00:20	1

Client Sample ID: T-2 (1'-1.5')

Lab Sample ID: 880-28417-12

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:55	05/19/23 00:43	1
Toluene	<0.00201	U **	0.00201		mg/Kg		05/17/23 10:55	05/19/23 00:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:55	05/19/23 00:43	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		05/17/23 10:55	05/19/23 00:43	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		05/17/23 10:55	05/19/23 00:43	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		05/17/23 10:55	05/19/23 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	228	S1+	70 - 130				05/17/23 10:55	05/19/23 00:43	1
1,4-Difluorobenzene (Surr)	74		70 - 130				05/17/23 10:55	05/19/23 00:43	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			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 16:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				05/16/23 12:56	05/17/23 16:09	1
o-Terphenyl	123		70 - 130				05/16/23 12:56	05/17/23 16:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.3		5.02		mg/Kg			05/18/23 00:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1.5'-2')

Lab Sample ID: 880-28417-13

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:55	05/19/23 01:09	1
Toluene	<0.00201	U **	0.00201		mg/Kg		05/17/23 10:55	05/19/23 01:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:55	05/19/23 01:09	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		05/17/23 10:55	05/19/23 01:09	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		05/17/23 10:55	05/19/23 01:09	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		05/17/23 10:55	05/19/23 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	241	S1+	70 - 130				05/17/23 10:55	05/19/23 01:09	1
1,4-Difluorobenzene (Surr)	75		70 - 130				05/17/23 10:55	05/19/23 01:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/16/23 12:56	05/17/23 16:31	1
o-Terphenyl	108		70 - 130				05/16/23 12:56	05/17/23 16:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.6		4.95		mg/Kg			05/18/23 00:41	1

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-28417-14

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/19/23 01:35	1
Toluene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/19/23 01:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/19/23 01:35	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/19/23 01:35	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/19/23 01:35	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/19/23 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	211	S1+	70 - 130				05/17/23 10:55	05/19/23 01:35	1
1,4-Difluorobenzene (Surr)	71		70 - 130				05/17/23 10:55	05/19/23 01:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (0-1')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/19/23 12:14	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	50.2		49.9		mg/Kg			05/18/23 12:40	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 16:53	1	
Diesel Range Organics (Over C10-C28)	50.2		49.9		mg/Kg		05/16/23 12:56	05/17/23 16:53	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 16:53	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	115		70 - 130				05/16/23 12:56	05/17/23 16:53	1	
o-Terphenyl	125		70 - 130				05/16/23 12:56	05/17/23 16:53	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	96.7		4.96		mg/Kg			05/18/23 00:57	1	

Client Sample ID: T-3 (1'-1.5')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-15
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		05/17/23 10:55	05/19/23 02:01	1	
Toluene	<0.00198	U *	0.00198		mg/Kg		05/17/23 10:55	05/19/23 02:01	1	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/17/23 10:55	05/19/23 02:01	1	
m-Xylene & p-Xylene	<0.00396	U *	0.00396		mg/Kg		05/17/23 10:55	05/19/23 02:01	1	
o-Xylene	<0.00198	U *	0.00198		mg/Kg		05/17/23 10:55	05/19/23 02:01	1	
Xylenes, Total	<0.00396	U *	0.00396		mg/Kg		05/17/23 10:55	05/19/23 02:01	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	208	S1+	70 - 130				05/17/23 10:55	05/19/23 02:01	1	
1,4-Difluorobenzene (Surr)	75		70 - 130				05/17/23 10:55	05/19/23 02:01	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			05/19/23 12:14	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			05/18/23 12:40	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/16/23 12:56	05/17/23 17:14	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/23 12:56	05/17/23 17:14	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1'-1.5')

Lab Sample ID: 880-28417-15

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/16/23 12:56	05/17/23 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/16/23 12:56	05/17/23 17:14	1
o-Terphenyl	119		70 - 130				05/16/23 12:56	05/17/23 17:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.4		5.00		mg/Kg			05/18/23 01:02	1

Client Sample ID: T-3 (1.5'-2')

Lab Sample ID: 880-28417-16

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/17/23 10:55	05/19/23 02:28	1
Toluene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/19/23 02:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/19/23 02:28	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		05/17/23 10:55	05/19/23 02:28	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/19/23 02:28	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		05/17/23 10:55	05/19/23 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	223	S1+	70 - 130				05/17/23 10:55	05/19/23 02:28	1
1,4-Difluorobenzene (Surr)	74		70 - 130				05/17/23 10:55	05/19/23 02:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/19/23 12:14	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			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 17:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				05/16/23 12:56	05/17/23 17:37	1
o-Terphenyl	121		70 - 130				05/16/23 12:56	05/17/23 17:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.1		5.04		mg/Kg			05/18/23 01:08	1

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-28417-17

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/17/23 10:55	05/19/23 02:54	1
Toluene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/19/23 02:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/19/23 02:54	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		05/17/23 10:55	05/19/23 02:54	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		05/17/23 10:55	05/19/23 02:54	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		05/17/23 10:55	05/19/23 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	208	S1+	70 - 130	05/17/23 10:55	05/19/23 02:54	1
1,4-Difluorobenzene (Surr)	76		70 - 130	05/17/23 10:55	05/19/23 02:54	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			05/19/23 12:14	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			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 17:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 17:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 12:56	05/17/23 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	05/16/23 12:56	05/17/23 17:58	1
o-Terphenyl	105		70 - 130	05/16/23 12:56	05/17/23 17:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.9		5.05		mg/Kg			05/18/23 01:13	1

Client Sample ID: T-4 (1'-1.5')

Lab Sample ID: 880-28417-18

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/19/23 03:21	1
Toluene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/19/23 03:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/19/23 03:21	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/19/23 03:21	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/19/23 03:21	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/19/23 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	215	S1+	70 - 130	05/17/23 10:55	05/19/23 03:21	1
1,4-Difluorobenzene (Surr)	75		70 - 130	05/17/23 10:55	05/19/23 03:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (1'-1.5')

Lab Sample ID: 880-28417-18

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 18:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 18:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				05/16/23 12:56	05/17/23 18:20	1
o-Terphenyl	106		70 - 130				05/16/23 12:56	05/17/23 18:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.9		4.99		mg/Kg			05/18/23 01:18	1

Client Sample ID: T-4 (1.5'-2')

Lab Sample ID: 880-28417-19

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/19/23 03:47	1
Toluene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/19/23 03:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:55	05/19/23 03:47	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/19/23 03:47	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:55	05/19/23 03:47	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		05/17/23 10:55	05/19/23 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	223	S1+	70 - 130				05/17/23 10:55	05/19/23 03:47	1
1,4-Difluorobenzene (Surr)	78		70 - 130				05/17/23 10:55	05/19/23 03:47	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			05/19/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 18:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 18:42	1

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (1.5'-2')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-19
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				05/16/23 12:56	05/17/23 18:42	1
o-Terphenyl	121		70 - 130				05/16/23 12:56	05/17/23 18:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.6		5.05		mg/Kg			05/18/23 01:24	1

Surrogate Summary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB1	DFBZ1		
		(70-130)	(70-130)		
880-28389-A-1-A MB	Method Blank	224 S1+	76		
880-28417-1	T-1 (0-1')	186 S1+	69 S1-		
880-28417-1 MS	T-1 (0-1')	195 S1+	82		
880-28417-1 MSD	T-1 (0-1')	202 S1+	94		
880-28417-2	T-1 (1'-1.5')	223 S1+	83		
880-28417-3	T-1 (1.5'-2')	241 S1+	80		
880-28417-4	T-1 (2'-3')	219 S1+	75		
880-28417-5	T-1 (3'-4')	215 S1+	79		
880-28417-6	T-1 (4'-5')	234 S1+	80		
880-28417-7	T-1 (5'-6')	237 S1+	86		
880-28417-8	T-1 (6'-7')	228 S1+	81		
880-28417-9	T-1 (7'-8')	219 S1+	78		
880-28417-10	T-1 (8'-9')	224 S1+	73		
880-28417-11	T-2 (0-1')	212 S1+	67 S1-		
880-28417-12	T-2 (1'-1.5')	228 S1+	74		
880-28417-13	T-2 (1.5'-2')	241 S1+	75		
880-28417-14	T-3 (0-1')	211 S1+	71		
880-28417-15	T-3 (1'-1.5')	208 S1+	75		
880-28417-16	T-3 (1.5'-2')	223 S1+	74		
880-28417-17	T-4 (0-1')	208 S1+	76		
880-28417-18	T-4 (1'-1.5')	215 S1+	75		
880-28417-19	T-4 (1.5'-2')	223 S1+	78		
LCS 880-53578/1-A	Lab Control Sample	143 S1+	75		
LCSD 880-53578/2-A	Lab Control Sample Dup	156 S1+	66 S1-		
MB 880-53578/5-A	Method Blank	115	69 S1-		
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	OTPH1		
		(70-130)	(70-130)		
880-28417-1	T-1 (0-1')	99	111		
880-28417-1 MS	T-1 (0-1')	104	104		
880-28417-1 MSD	T-1 (0-1')	89	91		
880-28417-2	T-1 (1'-1.5')	99	112		
880-28417-3	T-1 (1.5'-2')	96	108		
880-28417-4	T-1 (2'-3')	96	108		
880-28417-5	T-1 (3'-4')	97	109		
880-28417-6	T-1 (4'-5')	96	105		
880-28417-7	T-1 (5'-6')	97	111		
880-28417-8	T-1 (6'-7')	97	109		
880-28417-9	T-1 (7'-8')	99	112		
880-28417-10	T-1 (8'-9')	94	107		
880-28417-11	T-2 (0-1')	112	125		
880-28417-12	T-2 (1'-1.5')	111	123		

Surrogate Summary

Client: Carmona Resources

Job ID: 880-28417-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-28417-13	T-2 (1.5'-2')	95	108
880-28417-14	T-3 (0-1')	115	125
880-28417-15	T-3 (1'-1.5')	107	119
880-28417-16	T-3 (1.5'-2')	110	121
880-28417-17	T-4 (0-1')	94	105
880-28417-18	T-4 (1'-1.5')	94	106
880-28417-19	T-4 (1.5'-2')	113	121
LCS 880-53485/2-A	Lab Control Sample	76	84
LCSD 880-53485/3-A	Lab Control Sample Dup	90	101
MB 880-53485/1-A	Method Blank	176 S1+	199 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-28389-A-1-A MB							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 53678							Prep Batch: 53578		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 23:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 23:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 23:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/17/23 10:55	05/18/23 23:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 23:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/17/23 10:55	05/18/23 23:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	224	S1+	70 - 130				05/17/23 10:55	05/18/23 23:51	1
1,4-Difluorobenzene (Surr)	76		70 - 130				05/17/23 10:55	05/18/23 23:51	1

Lab Sample ID: MB 880-53578/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 53678							Prep Batch: 53578		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 17:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 17:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 17:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/17/23 10:55	05/18/23 17:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:55	05/18/23 17:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/17/23 10:55	05/18/23 17:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				05/17/23 10:55	05/18/23 17:49	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				05/17/23 10:55	05/18/23 17:49	1

Lab Sample ID: LCS 880-53578/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 53678							Prep Batch: 53578		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1179		mg/Kg		118	70 - 130		
Toluene	0.100	0.1240		mg/Kg		124	70 - 130		
Ethylbenzene	0.100	0.1149		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene	0.200	0.2590		mg/Kg		129	70 - 130		
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	75		70 - 130						

Lab Sample ID: LCSD 880-53578/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 53678							Prep Batch: 53578		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1259		mg/Kg		126	70 - 130	7	35

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QC Sample Results

Client: Carmona Resources

Job ID: 880-28417-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-53578/2-A

Matrix: Solid

Analysis Batch: 53678

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53578

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	Limit
Toluene	0.100	0.1371	*+	mg/Kg		137	70 - 130	10	35
Ethylbenzene	0.100	0.1270		mg/Kg		127	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2878	*+	mg/Kg		144	70 - 130	11	35
o-Xylene	0.100	0.1308	*+	mg/Kg		131	70 - 130	13	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130

Lab Sample ID: 880-28417-1 MS

Matrix: Solid

Analysis Batch: 53678

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 53578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U F1	0.100	0.1467	F1	mg/Kg		146	70 - 130	
Toluene	<0.00199	U F1 *+	0.100	0.1524	F1	mg/Kg		152	70 - 130	
Ethylbenzene	<0.00199	U F1	0.100	0.1328	F1	mg/Kg		132	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1 *+	0.200	0.2964	F1	mg/Kg		148	70 - 130	
o-Xylene	<0.00199	U F1 *+	0.100	0.1323	F1	mg/Kg		132	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: 880-28417-1 MSD

Matrix: Solid

Analysis Batch: 53678

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 53578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD
									Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0990	0.1498	F1	mg/Kg		151	70 - 130	2	35
Toluene	<0.00199	U F1 *+	0.0990	0.1555	F1	mg/Kg		157	70 - 130	2	35
Ethylbenzene	<0.00199	U F1	0.0990	0.1333	F1	mg/Kg		135	70 - 130	0	35
m-Xylene & p-Xylene	<0.00398	U F1 *+	0.198	0.2979	F1	mg/Kg		150	70 - 130	0	35
o-Xylene	<0.00199	U F1 *+	0.0990	0.1339	F1	mg/Kg		135	70 - 130	1	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-53485/1-A

Matrix: Solid

Analysis Batch: 53552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53485

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 08:32	1

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QC Sample Results

Client: Carmona Resources

Job ID: 880-28417-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-53485/1-A

Matrix: Solid

Analysis Batch: 53552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53485

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 08:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/23 12:56	05/17/23 08:32	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	176	S1+	70 - 130				05/16/23 12:56	05/17/23 08:32	1
o-Terphenyl	199	S1+	70 - 130				05/16/23 12:56	05/17/23 08:32	1

Lab Sample ID: LCS 880-53485/2-A

Matrix: Solid

Analysis Batch: 53552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1013		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	730.7		mg/Kg		73	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	76		70 - 130						
o-Terphenyl	84		70 - 130						

Lab Sample ID: LCSD 880-53485/3-A

Matrix: Solid

Analysis Batch: 53552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	983.2		mg/Kg		98	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	726.9		mg/Kg		73	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	90		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 880-28417-1 MS

Matrix: Solid

Analysis Batch: 53552

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 53485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	996	940.9		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	62.8		996	956.9		mg/Kg		90	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	104		70 - 130								

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QC Sample Results

Client: Carmona Resources

Job ID: 880-28417-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28417-1 MSD

Matrix: Solid

Analysis Batch: 53552

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 53485

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	<49.9	U F2	996	1163	F2	mg/Kg		114	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	62.8		996	829.5		mg/Kg		77	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	91		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53476/1-A

Matrix: Solid

Analysis Batch: 53585

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/17/23 22:49	1

Lab Sample ID: LCS 880-53476/2-A

Matrix: Solid

Analysis Batch: 53585

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-53476/3-A

Matrix: Solid

Analysis Batch: 53585

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	261.6		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-28417-1 MS

Matrix: Solid

Analysis Batch: 53585

Client Sample ID: T-1 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19000	F1	12400	38250	F1	mg/Kg		155	90 - 110

Lab Sample ID: 880-28417-1 MSD

Matrix: Solid

Analysis Batch: 53585

Client Sample ID: T-1 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19000	F1	12400	38320	F1	mg/Kg		156	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-28417-11 MS											Client Sample ID: T-2 (0-1')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 53585													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	73.0		249	330.3		mg/Kg		103	90 - 110				

Lab Sample ID: 880-28417-11 MSD											Client Sample ID: T-2 (0-1')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 53585													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	73.0		249	331.2		mg/Kg		104	90 - 110	0	20		

QC Association Summary

Client: Carmona Resources

Job ID: 880-28417-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 53578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1	T-1 (0'-1')	Total/NA	Solid	5035	
880-28417-2	T-1 (1'-1.5')	Total/NA	Solid	5035	
880-28417-3	T-1 (1.5'-2')	Total/NA	Solid	5035	
880-28417-4	T-1 (2'-3')	Total/NA	Solid	5035	
880-28417-5	T-1 (3'-4')	Total/NA	Solid	5035	
880-28417-6	T-1 (4'-5')	Total/NA	Solid	5035	
880-28417-7	T-1 (5'-6')	Total/NA	Solid	5035	
880-28417-8	T-1 (6'-7')	Total/NA	Solid	5035	
880-28417-9	T-1 (7'-8')	Total/NA	Solid	5035	
880-28417-10	T-1 (8'-9')	Total/NA	Solid	5035	
880-28417-11	T-2 (0'-1')	Total/NA	Solid	5035	
880-28417-12	T-2 (1'-1.5')	Total/NA	Solid	5035	
880-28417-13	T-2 (1.5'-2')	Total/NA	Solid	5035	
880-28417-14	T-3 (0'-1')	Total/NA	Solid	5035	
880-28417-15	T-3 (1'-1.5')	Total/NA	Solid	5035	
880-28417-16	T-3 (1.5'-2')	Total/NA	Solid	5035	
880-28417-17	T-4 (0'-1')	Total/NA	Solid	5035	
880-28417-18	T-4 (1'-1.5')	Total/NA	Solid	5035	
880-28417-19	T-4 (1.5'-2')	Total/NA	Solid	5035	
880-28389-A-1-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-53578/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53578/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53578/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28417-1 MS	T-1 (0'-1')	Total/NA	Solid	5035	
880-28417-1 MSD	T-1 (0'-1')	Total/NA	Solid	5035	

Analysis Batch: 53678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1	T-1 (0'-1')	Total/NA	Solid	8021B	53578
880-28417-2	T-1 (1'-1.5')	Total/NA	Solid	8021B	53578
880-28417-3	T-1 (1.5'-2')	Total/NA	Solid	8021B	53578
880-28417-4	T-1 (2'-3')	Total/NA	Solid	8021B	53578
880-28417-5	T-1 (3'-4')	Total/NA	Solid	8021B	53578
880-28417-6	T-1 (4'-5')	Total/NA	Solid	8021B	53578
880-28417-7	T-1 (5'-6')	Total/NA	Solid	8021B	53578
880-28417-8	T-1 (6'-7')	Total/NA	Solid	8021B	53578
880-28417-9	T-1 (7'-8')	Total/NA	Solid	8021B	53578
880-28417-10	T-1 (8'-9')	Total/NA	Solid	8021B	53578
880-28417-11	T-2 (0'-1')	Total/NA	Solid	8021B	53578
880-28417-12	T-2 (1'-1.5')	Total/NA	Solid	8021B	53578
880-28417-13	T-2 (1.5'-2')	Total/NA	Solid	8021B	53578
880-28417-14	T-3 (0'-1')	Total/NA	Solid	8021B	53578
880-28417-15	T-3 (1'-1.5')	Total/NA	Solid	8021B	53578
880-28417-16	T-3 (1.5'-2')	Total/NA	Solid	8021B	53578
880-28417-17	T-4 (0'-1')	Total/NA	Solid	8021B	53578
880-28417-18	T-4 (1'-1.5')	Total/NA	Solid	8021B	53578
880-28417-19	T-4 (1.5'-2')	Total/NA	Solid	8021B	53578
880-28389-A-1-A MB	Method Blank	Total/NA	Solid	8021B	53578
MB 880-53578/5-A	Method Blank	Total/NA	Solid	8021B	53578
LCS 880-53578/1-A	Lab Control Sample	Total/NA	Solid	8021B	53578
LCSD 880-53578/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53578

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QC Association Summary

Client: Carmona Resources

Job ID: 880-28417-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 53678 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	53578
880-28417-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	53578

Analysis Batch: 53776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-28417-2	T-1 (1'-1.5')	Total/NA	Solid	Total BTEX	
880-28417-3	T-1 (1.5'-2')	Total/NA	Solid	Total BTEX	
880-28417-4	T-1 (2'-3')	Total/NA	Solid	Total BTEX	
880-28417-5	T-1 (3'-4')	Total/NA	Solid	Total BTEX	
880-28417-6	T-1 (4'-5')	Total/NA	Solid	Total BTEX	
880-28417-7	T-1 (5'-6')	Total/NA	Solid	Total BTEX	
880-28417-8	T-1 (6'-7')	Total/NA	Solid	Total BTEX	
880-28417-9	T-1 (7'-8')	Total/NA	Solid	Total BTEX	
880-28417-10	T-1 (8'-9')	Total/NA	Solid	Total BTEX	
880-28417-11	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-28417-12	T-2 (1'-1.5')	Total/NA	Solid	Total BTEX	
880-28417-13	T-2 (1.5'-2')	Total/NA	Solid	Total BTEX	
880-28417-14	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-28417-15	T-3 (1'-1.5')	Total/NA	Solid	Total BTEX	
880-28417-16	T-3 (1.5'-2')	Total/NA	Solid	Total BTEX	
880-28417-17	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-28417-18	T-4 (1'-1.5')	Total/NA	Solid	Total BTEX	
880-28417-19	T-4 (1.5'-2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 53485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-28417-2	T-1 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-28417-3	T-1 (1.5'-2')	Total/NA	Solid	8015NM Prep	
880-28417-4	T-1 (2'-3')	Total/NA	Solid	8015NM Prep	
880-28417-5	T-1 (3'-4')	Total/NA	Solid	8015NM Prep	
880-28417-6	T-1 (4'-5')	Total/NA	Solid	8015NM Prep	
880-28417-7	T-1 (5'-6')	Total/NA	Solid	8015NM Prep	
880-28417-8	T-1 (6'-7')	Total/NA	Solid	8015NM Prep	
880-28417-9	T-1 (7'-8')	Total/NA	Solid	8015NM Prep	
880-28417-10	T-1 (8'-9')	Total/NA	Solid	8015NM Prep	
880-28417-11	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-28417-12	T-2 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-28417-13	T-2 (1.5'-2')	Total/NA	Solid	8015NM Prep	
880-28417-14	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-28417-15	T-3 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-28417-16	T-3 (1.5'-2')	Total/NA	Solid	8015NM Prep	
880-28417-17	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-28417-18	T-4 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-28417-19	T-4 (1.5'-2')	Total/NA	Solid	8015NM Prep	
MB 880-53485/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53485/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53485/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-28417-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 53485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-28417-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1	T-1 (0-1')	Total/NA	Solid	8015B NM	53485
880-28417-2	T-1 (1'-1.5')	Total/NA	Solid	8015B NM	53485
880-28417-3	T-1 (1.5'-2')	Total/NA	Solid	8015B NM	53485
880-28417-4	T-1 (2'-3')	Total/NA	Solid	8015B NM	53485
880-28417-5	T-1 (3'-4')	Total/NA	Solid	8015B NM	53485
880-28417-6	T-1 (4'-5')	Total/NA	Solid	8015B NM	53485
880-28417-7	T-1 (5'-6')	Total/NA	Solid	8015B NM	53485
880-28417-8	T-1 (6'-7')	Total/NA	Solid	8015B NM	53485
880-28417-9	T-1 (7'-8')	Total/NA	Solid	8015B NM	53485
880-28417-10	T-1 (8'-9')	Total/NA	Solid	8015B NM	53485
880-28417-11	T-2 (0-1')	Total/NA	Solid	8015B NM	53485
880-28417-12	T-2 (1'-1.5')	Total/NA	Solid	8015B NM	53485
880-28417-13	T-2 (1.5'-2')	Total/NA	Solid	8015B NM	53485
880-28417-14	T-3 (0-1')	Total/NA	Solid	8015B NM	53485
880-28417-15	T-3 (1'-1.5')	Total/NA	Solid	8015B NM	53485
880-28417-16	T-3 (1.5'-2')	Total/NA	Solid	8015B NM	53485
880-28417-17	T-4 (0-1')	Total/NA	Solid	8015B NM	53485
880-28417-18	T-4 (1'-1.5')	Total/NA	Solid	8015B NM	53485
880-28417-19	T-4 (1.5'-2')	Total/NA	Solid	8015B NM	53485
MB 880-53485/1-A	Method Blank	Total/NA	Solid	8015B NM	53485
LCS 880-53485/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53485
LCSD 880-53485/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53485
880-28417-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	53485
880-28417-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	53485

Analysis Batch: 53668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-28417-2	T-1 (1'-1.5')	Total/NA	Solid	8015 NM	
880-28417-3	T-1 (1.5'-2')	Total/NA	Solid	8015 NM	
880-28417-4	T-1 (2'-3')	Total/NA	Solid	8015 NM	
880-28417-5	T-1 (3'-4')	Total/NA	Solid	8015 NM	
880-28417-6	T-1 (4'-5')	Total/NA	Solid	8015 NM	
880-28417-7	T-1 (5'-6')	Total/NA	Solid	8015 NM	
880-28417-8	T-1 (6'-7')	Total/NA	Solid	8015 NM	
880-28417-9	T-1 (7'-8')	Total/NA	Solid	8015 NM	
880-28417-10	T-1 (8'-9')	Total/NA	Solid	8015 NM	
880-28417-11	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-28417-12	T-2 (1'-1.5')	Total/NA	Solid	8015 NM	
880-28417-13	T-2 (1.5'-2')	Total/NA	Solid	8015 NM	
880-28417-14	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-28417-15	T-3 (1'-1.5')	Total/NA	Solid	8015 NM	
880-28417-16	T-3 (1.5'-2')	Total/NA	Solid	8015 NM	
880-28417-17	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-28417-18	T-4 (1'-1.5')	Total/NA	Solid	8015 NM	
880-28417-19	T-4 (1.5'-2')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-28417-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 53476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-28417-2	T-1 (1'-1.5')	Soluble	Solid	DI Leach	
880-28417-3	T-1 (1.5'-2')	Soluble	Solid	DI Leach	
880-28417-4	T-1 (2'-3')	Soluble	Solid	DI Leach	
880-28417-5	T-1 (3'-4')	Soluble	Solid	DI Leach	
880-28417-6	T-1 (4'-5')	Soluble	Solid	DI Leach	
880-28417-7	T-1 (5'-6')	Soluble	Solid	DI Leach	
880-28417-8	T-1 (6'-7')	Soluble	Solid	DI Leach	
880-28417-9	T-1 (7'-8')	Soluble	Solid	DI Leach	
880-28417-10	T-1 (8'-9')	Soluble	Solid	DI Leach	
880-28417-11	T-2 (0-1')	Soluble	Solid	DI Leach	
880-28417-12	T-2 (1'-1.5')	Soluble	Solid	DI Leach	
880-28417-13	T-2 (1.5'-2')	Soluble	Solid	DI Leach	
880-28417-14	T-3 (0-1')	Soluble	Solid	DI Leach	
880-28417-15	T-3 (1'-1.5')	Soluble	Solid	DI Leach	
880-28417-16	T-3 (1.5'-2')	Soluble	Solid	DI Leach	
880-28417-17	T-4 (0-1')	Soluble	Solid	DI Leach	
880-28417-18	T-4 (1'-1.5')	Soluble	Solid	DI Leach	
880-28417-19	T-4 (1.5'-2')	Soluble	Solid	DI Leach	
MB 880-53476/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53476/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53476/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28417-1 MS	T-1 (0-1')	Soluble	Solid	DI Leach	
880-28417-1 MSD	T-1 (0-1')	Soluble	Solid	DI Leach	
880-28417-11 MS	T-2 (0-1')	Soluble	Solid	DI Leach	
880-28417-11 MSD	T-2 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 53585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1	T-1 (0-1')	Soluble	Solid	300.0	53476
880-28417-2	T-1 (1'-1.5')	Soluble	Solid	300.0	53476
880-28417-3	T-1 (1.5'-2')	Soluble	Solid	300.0	53476
880-28417-4	T-1 (2'-3')	Soluble	Solid	300.0	53476
880-28417-5	T-1 (3'-4')	Soluble	Solid	300.0	53476
880-28417-6	T-1 (4'-5')	Soluble	Solid	300.0	53476
880-28417-7	T-1 (5'-6')	Soluble	Solid	300.0	53476
880-28417-8	T-1 (6'-7')	Soluble	Solid	300.0	53476
880-28417-9	T-1 (7'-8')	Soluble	Solid	300.0	53476
880-28417-10	T-1 (8'-9')	Soluble	Solid	300.0	53476
880-28417-11	T-2 (0-1')	Soluble	Solid	300.0	53476
880-28417-12	T-2 (1'-1.5')	Soluble	Solid	300.0	53476
880-28417-13	T-2 (1.5'-2')	Soluble	Solid	300.0	53476
880-28417-14	T-3 (0-1')	Soluble	Solid	300.0	53476
880-28417-15	T-3 (1'-1.5')	Soluble	Solid	300.0	53476
880-28417-16	T-3 (1.5'-2')	Soluble	Solid	300.0	53476
880-28417-17	T-4 (0-1')	Soluble	Solid	300.0	53476
880-28417-18	T-4 (1'-1.5')	Soluble	Solid	300.0	53476
880-28417-19	T-4 (1.5'-2')	Soluble	Solid	300.0	53476
MB 880-53476/1-A	Method Blank	Soluble	Solid	300.0	53476
LCS 880-53476/2-A	Lab Control Sample	Soluble	Solid	300.0	53476
LCSD 880-53476/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53476

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 53585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28417-1 MS	T-1 (0-1')	Soluble	Solid	300.0	53476
880-28417-1 MSD	T-1 (0-1')	Soluble	Solid	300.0	53476
880-28417-11 MS	T-2 (0-1')	Soluble	Solid	300.0	53476
880-28417-11 MSD	T-2 (0-1')	Soluble	Solid	300.0	53476

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-28417-1

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 11:06	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	53585	05/17/23 23:05	CH	EET MID

Client Sample ID: T-1 (1'-1.5')

Lab Sample ID: 880-28417-2

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 12:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	53585	05/17/23 23:21	CH	EET MID

Client Sample ID: T-1 (1.5'-2')

Lab Sample ID: 880-28417-3

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 12:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53585	05/17/23 23:26	CH	EET MID

Client Sample ID: T-1 (2'-3')

Lab Sample ID: 880-28417-4

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (2'-3')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-4
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			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 12:55	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53585	05/17/23 23:32	CH	EET MID

Client Sample ID: T-1 (3'-4')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 13:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	53585	05/17/23 23:37	CH	EET MID

Client Sample ID: T-1 (4'-5')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-6
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	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 20:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 13:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53585	05/17/23 23:53	CH	EET MID

Client Sample ID: T-1 (5'-6')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-7
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			5.01 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 20:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 14:00	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (5'-6')

Date Collected: 05/12/23 00:00

Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-7

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			5.01 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53585	05/17/23 23:58	CH	EET MID

Client Sample ID: T-1 (6'-7')

Date Collected: 05/12/23 00:00

Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-8

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			4.99 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 21:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 14:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	53585	05/18/23 00:04	CH	EET MID

Client Sample ID: T-1 (7'-8')

Date Collected: 05/12/23 00:00

Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-9

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	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 14:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 00:09	CH	EET MID

Client Sample ID: T-1 (8'-9')

Date Collected: 05/12/23 00:00

Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-10

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			5.03 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/18/23 22:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 15:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 00:14	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (0-1')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-11
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	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 00:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 15:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 00:20	CH	EET MID

Client Sample ID: T-2 (1'-1.5')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 16:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 00:36	CH	EET MID

Client Sample ID: T-2 (1.5'-2')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 16:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 00:41	CH	EET MID

Client Sample ID: T-3 (0-1')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-14
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			5.02 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 01:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (0-1')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-14
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			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 16:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 00:57	CH	EET MID

Client Sample ID: T-3 (1'-1.5')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-15
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			5.05 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 02:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 17:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 01:02	CH	EET MID

Client Sample ID: T-3 (1.5'-2')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-16
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			5.01 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 02:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 17:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 01:08	CH	EET MID

Client Sample ID: T-4 (0-1')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-17
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			4.99 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 02:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 17:58	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Client Sample ID: T-4 (0-1')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-17
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	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 01:13	CH	EET MID

Client Sample ID: T-4 (1'-1.5')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-18
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			5.02 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 03:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 18:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 01:18	CH	EET MID

Client Sample ID: T-4 (1.5'-2')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28417-19
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			5.03 g	5 mL	53578	05/17/23 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53678	05/19/23 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53776	05/19/23 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53668	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53485	05/16/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 18:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53476	05/16/23 12:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53585	05/18/23 01:24	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: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28417-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28417-1	T-1 (0'-1')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-2	T-1 (1'-1.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-3	T-1 (1.5'-2')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-4	T-1 (2'-3')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-5	T-1 (3'-4')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-6	T-1 (4'-5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-7	T-1 (5'-6')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-8	T-1 (6'-7')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-9	T-1 (7'-8')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-10	T-1 (8'-9')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-11	T-2 (0'-1')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-12	T-2 (1'-1.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-13	T-2 (1.5'-2')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-14	T-3 (0'-1')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-15	T-3 (1'-1.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-16	T-3 (1.5'-2')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-17	T-4 (0'-1')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-18	T-4 (1'-1.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28417-19	T-4 (1.5'-2')	Solid	05/12/23 00:00	05/15/23 13:20

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880-28417 Chain of Custody

Page 1 of 2

Project Manager		Ashton Thielke		Bill to: (if different)		Laci Luig	
Company Name		Carmona Resources		Company Name:		Cimarex Energy	
Address		310 W Wall St Ste 500		Address		600 N Marienfield St, Suite 600	
City State ZIP		Midland, TX 79701		City State ZIP:		Midland TX 79701	
Phone		432-813-8988		Email		laci.luig@coterra.com ashton.thielke@coterra.com	

Project Name:		New Mexico DD State Com #004 (02 05 16)		Turn Around		Pres. Code	
Project Number		2016		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ					
PO #							

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Preservative Codes
T-1 (0-1')	5/12/2023		X		G	1		X	X		None NO DI Water H ₂ O
T-1 (1'-1.5')	5/12/2023		X		G	1		X	X		Cool Cool MeOH Me
T-1 (1.5'-2')	5/12/2023		X		G	1		X	X		HCL, HC HNO ₃ HN
T-1 (2'-3')	5/12/2023		X		G	1		X	X		H ₂ SO ₄ H ₂ NaOH Na
T-1 (3'-4')	5/12/2023		X		G	1		X	X		H ₃ PO ₄ HP
T-1 (4'-5')	5/12/2023		X		G	1		X	X		NaHSO ₄ , NABIS
T-1 (5'-6')	5/12/2023		X		G	1		X	X		Na ₂ S ₂ O ₃ , NaSO ₃
T-1 (6'-7')	5/12/2023		X		G	1		X	X		Zn Acetate+NaOH Zn
T-1 (7'-8')	5/12/2023		X		G	1		X	X		NaOH+Ascorbic Acid SAPC
T-1 (8'-9')	5/12/2023		X		G	1		X	X		

Comments:

Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
<i>Alma Lopez</i>		5-15-23 1320		<i>[Signature]</i>			

Work Order No: 20417

Page 2 of 2

Page 2 of 2

Work Order Comments

Program: ☐ US/IST ☐ PRP ☐ Rowfields ☐ RC ☐ perfund

State of Project:

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

Deliverables ☐ EDD ☐ ADAPT ☐ Other

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 Marientfield 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	

Project Name		New Mexico DD State Com #004 (02.05.16)						Turn Around								ANALYSIS REQUEST										Preservative Codes	
Project Number		2016						<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush										None NO		DI Water H ₂ O							
Project Location		Eddy County, New Mexico						Due Date		Normal								Cool Cool		MeOH Me							
Sampler's Name		GPJ																HCL HC		HNO ₃ HN							
PO #:																		H ₂ SO ₄ H ₂		NaOH Na							
SAMPLE RECEIPT		Temp Blank.		Yes No		Wet Ice		Yes No										H ₃ PO ₄ HP									
Received Intact:		Yes No		Thermometer ID														NaHSO ₄ , NABIS									
Cooler Custody Seals		Yes No N/A		Correction Factor														Na ₂ S ₂ O ₃ , NaSO ₃									
Sample Custody Seals		Yes No N/A		Temperature Reading														Zn Acetate+NaOH Zn									
Total Containers:				Corrected Temperature														NaOH+Ascorbic Acid SAPC									
Sample Identification		Date		Time		Soil		Water		Grab/ Comp										Sample Comments							
T-2 (0-1')		5/12/2023				X				G																	
T-2 (1'-1.5')		5/12/2023				X				G																	
T-2 (1.5'- 2')		5/12/2023				X				G																	
T-3 (0-1')		5/12/2023				X				G																	
T-3 (1'-1.5')		5/12/2023				X				G																	
T-3 (1.5'- 2')		5/12/2023				X				G																	
T-4 (0-1')		5/12/2023				X				G																	
T-4 (1'-1.5')		5/12/2023				X				G																	
T-4 (1.5'- 2')		5/12/2023				X				G																	

Comments:

Comments:	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	<i>Anna May</i>	5-15-73	<i>[Signature]</i>	
		1320		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28417-1

SDG Number: Eddy County, New Mexico

Login Number: 28417

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/22/2023 4:00:10 PM

JOB DESCRIPTION

New Mexico DD State Com #004 (02.05.16)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-28416-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

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

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

Authorization



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Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Laboratory Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

Job ID: 880-28416-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-28416-1****Receipt**

The samples were received on 5/15/2023 1:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-28416-1), H-2 (0-0.5') (880-28416-2), H-3 (0-0.5') (880-28416-3), H-4 (0-0.5') (880-28416-4), H-5 (0-0.5') (880-28416-5) and H-6 (0-0.5') (880-28416-6).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-53575 and analytical batch 880-53791 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53575 and analytical batch 880-53791 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53543 and analytical batch 880-53548 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-53543 and analytical batch 880-53548 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.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28416-1

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/17/23 10:45	05/20/23 20:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 20:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 20:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/17/23 10:45	05/20/23 20:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 20:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/17/23 10:45	05/20/23 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/17/23 10:45	05/20/23 20:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/17/23 10:45	05/20/23 20:34	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			05/22/23 12:48	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			05/18/23 09:29	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	<50.0	U	50.0		mg/Kg		05/17/23 08:38	05/17/23 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		05/17/23 08:38	05/17/23 16:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/17/23 08:38	05/17/23 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	05/17/23 08:38	05/17/23 16:09	1
o-Terphenyl	86		70 - 130	05/17/23 08:38	05/17/23 16:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.5		4.97		mg/Kg			05/17/23 16:02	1

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

Lab Sample ID: 880-28416-2

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		05/17/23 10:45	05/20/23 20:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:45	05/20/23 20:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:45	05/20/23 20:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/17/23 10:45	05/20/23 20:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/17/23 10:45	05/20/23 20:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/17/23 10:45	05/20/23 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/17/23 10:45	05/20/23 20:55	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/17/23 10:45	05/20/23 20:55	1

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28416-2

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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			05/22/23 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/18/23 09:29	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	<49.8	U	49.8		mg/Kg		05/17/23 08:38	05/17/23 16:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		05/17/23 08:38	05/17/23 16:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/17/23 08:38	05/17/23 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				05/17/23 08:38	05/17/23 16:31	1
o-Terphenyl	85		70 - 130				05/17/23 08:38	05/17/23 16:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.2		5.03		mg/Kg			05/17/23 16:19	1

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

Lab Sample ID: 880-28416-3

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		05/17/23 10:45	05/20/23 21:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/17/23 10:45	05/20/23 21:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/17/23 10:45	05/20/23 21:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/17/23 10:45	05/20/23 21:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/17/23 10:45	05/20/23 21:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/17/23 10:45	05/20/23 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				05/17/23 10:45	05/20/23 21:15	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/17/23 10:45	05/20/23 21:15	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			05/22/23 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/18/23 09:29	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	<49.9	U	49.9		mg/Kg		05/17/23 08:38	05/17/23 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		05/17/23 08:38	05/17/23 16:52	1

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28416-3

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/17/23 08:38	05/17/23 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				05/17/23 08:38	05/17/23 16:52	1
o-Terphenyl	85		70 - 130				05/17/23 08:38	05/17/23 16:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.02		mg/Kg			05/17/23 16:24	1

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

Lab Sample ID: 880-28416-4

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199		mg/Kg		05/17/23 10:45	05/20/23 21:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/20/23 21:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/20/23 21:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/17/23 10:45	05/20/23 21:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/20/23 21:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/17/23 10:45	05/20/23 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				05/17/23 10:45	05/20/23 21:36	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/17/23 10:45	05/20/23 21:36	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			05/22/23 12:48	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			05/18/23 09:29	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	<50.0	U	50.0		mg/Kg		05/17/23 08:38	05/17/23 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		05/17/23 08:38	05/17/23 17:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/17/23 08:38	05/17/23 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				05/17/23 08:38	05/17/23 17:14	1
o-Terphenyl	81		70 - 130				05/17/23 08:38	05/17/23 17:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.8		4.97		mg/Kg			05/17/23 16:29	1

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Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28416-5

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		05/17/23 10:45	05/20/23 21:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/20/23 21:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/20/23 21:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/17/23 10:45	05/20/23 21:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/17/23 10:45	05/20/23 21:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/17/23 10:45	05/20/23 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/17/23 10:45	05/20/23 21:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/17/23 10:45	05/20/23 21:56	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			05/22/23 12:48	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			05/18/23 09:29	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	<50.0	U	50.0		mg/Kg		05/17/23 08:38	05/17/23 17:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		05/17/23 08:38	05/17/23 17:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/17/23 08:38	05/17/23 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	05/17/23 08:38	05/17/23 17:36	1
o-Terphenyl	80		70 - 130	05/17/23 08:38	05/17/23 17:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.5		5.01		mg/Kg			05/17/23 16:35	1

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

Lab Sample ID: 880-28416-6

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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		05/17/23 10:45	05/20/23 22:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 22:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 22:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/17/23 10:45	05/20/23 22:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 22:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/17/23 10:45	05/20/23 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/17/23 10:45	05/20/23 22:17	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/17/23 10:45	05/20/23 22:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28416-6

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

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			05/22/23 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/18/23 09:29	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	<49.9	U	49.9		mg/Kg		05/17/23 08:38	05/17/23 17:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		05/17/23 08:38	05/17/23 17:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/17/23 08:38	05/17/23 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	05/17/23 08:38	05/17/23 17:58	1
o-Terphenyl	81		70 - 130	05/17/23 08:38	05/17/23 17:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.4		4.95		mg/Kg			05/17/23 16:51	1

Surrogate Summary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-28403-A-1-G MS	Matrix Spike	96	118				
880-28403-A-1-H MSD	Matrix Spike Duplicate	97	101				
880-28416-1	H-1 (0-0.5')	96	97				
880-28416-2	H-2 (0-0.5')	98	94				
880-28416-3	H-3 (0-0.5')	93	100				
880-28416-4	H-4 (0-0.5')	96	98				
880-28416-5	H-5 (0-0.5')	97	97				
880-28416-6	H-6 (0-0.5')	99	101				
LCS 880-53575/1-A	Lab Control Sample	89	107				
LCSD 880-53575/2-A	Lab Control Sample Dup	94	116				
MB 880-53575/5-A	Method Blank	88	110				
MB 880-53741/5-A	Method Blank	91	95				
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	OTPH1				
		(70-130)	(70-130)				
880-28404-A-1-C MS	Matrix Spike	89	78				
880-28404-A-1-D MSD	Matrix Spike Duplicate	90	79				
880-28416-1	H-1 (0-0.5')	88	86				
880-28416-2	H-2 (0-0.5')	86	85				
880-28416-3	H-3 (0-0.5')	89	85				
880-28416-4	H-4 (0-0.5')	86	81				
880-28416-5	H-5 (0-0.5')	87	80				
880-28416-6	H-6 (0-0.5')	88	81				
LCS 880-53543/2-A	Lab Control Sample	80	80				
LCSD 880-53543/3-A	Lab Control Sample Dup	74	74				
MB 880-53543/1-A	Method Blank	126	135 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53575/5-A

Matrix: Solid

Analysis Batch: 53791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/17/23 10:45	05/20/23 19:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/17/23 10:45	05/20/23 19:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/17/23 10:45	05/20/23 19:04	1
1,4-Difluorobenzene (Surr)	110		70 - 130	05/17/23 10:45	05/20/23 19:04	1

Lab Sample ID: LCS 880-53575/1-A

Matrix: Solid

Analysis Batch: 53791

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1303		mg/Kg		130	70 - 130
Toluene	0.100	0.1118		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.09809		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1903		mg/Kg		95	70 - 130
o-Xylene	0.100	0.08702		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-53575/2-A

Matrix: Solid

Analysis Batch: 53791

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53575

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1383	*+	mg/Kg		138	70 - 130	6	35
Toluene	0.100	0.1191		mg/Kg		119	70 - 130	6	35
Ethylbenzene	0.100	0.1042		mg/Kg		104	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2069		mg/Kg		103	70 - 130	8	35
o-Xylene	0.100	0.09573		mg/Kg		96	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 880-28403-A-1-G MS

Matrix: Solid

Analysis Batch: 53791

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U ** F1	0.0990	0.1239		mg/Kg		125	70 - 130
Toluene	<0.00198	U	0.0990	0.1040		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28403-A-1-G MS

Matrix: Solid

Analysis Batch: 53791

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0990	0.09380		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.198	0.1909		mg/Kg		96	70 - 130
o-Xylene	<0.00198	U	0.0990	0.08821		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-28403-A-1-H MSD

Matrix: Solid

Analysis Batch: 53791

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U *+ F1	0.100	0.1354	F1	mg/Kg		135	70 - 130	9	35
Toluene	<0.00198	U	0.100	0.1068		mg/Kg		107	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.100	0.1025		mg/Kg		102	70 - 130	9	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2187		mg/Kg		109	70 - 130	14	35
o-Xylene	<0.00198	U	0.100	0.1006		mg/Kg		100	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-53741/5-A

Matrix: Solid

Analysis Batch: 53791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/23 09:45	05/20/23 07:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/23 09:45	05/20/23 07:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/19/23 09:45	05/20/23 07:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/19/23 09:45	05/20/23 07:28	1

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

Lab Sample ID: MB 880-53543/1-A

Matrix: Solid

Analysis Batch: 53548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53543

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		05/17/23 08:00	05/17/23 08:38	1

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QC Sample Results

Client: Carmona Resources

Job ID: 880-28416-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-53543/1-A

Matrix: Solid

Analysis Batch: 53548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53543

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/17/23 08:00	05/17/23 08:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/17/23 08:00	05/17/23 08:38	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	126		70 - 130				05/17/23 08:00	05/17/23 08:38	1
o-Terphenyl	135	S1+	70 - 130				05/17/23 08:00	05/17/23 08:38	1

Lab Sample ID: LCS 880-53543/2-A

Matrix: Solid

Analysis Batch: 53548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	728.1		mg/Kg		73	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	687.4	*-	mg/Kg		69	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	80		70 - 130						
o-Terphenyl	80		70 - 130						

Lab Sample ID: LCSD 880-53543/3-A

Matrix: Solid

Analysis Batch: 53548

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53543

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	714.3		mg/Kg		71	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	663.5	*-	mg/Kg		66	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	74		70 - 130						
o-Terphenyl	74		70 - 130						

Lab Sample ID: 880-28404-A-1-C MS

Matrix: Solid

Analysis Batch: 53548

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	800.6		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *-	997	809.3		mg/Kg		81	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	78		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28404-A-1-D MSD

Matrix: Solid

Analysis Batch: 53548

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53543

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	<49.9	U	999	883.3		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U *	999	818.8		mg/Kg		82	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	79		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53475/1-A

Matrix: Solid

Analysis Batch: 53583

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/17/23 15:46	1

Lab Sample ID: LCS 880-53475/2-A

Matrix: Solid

Analysis Batch: 53583

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.6		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-53475/3-A

Matrix: Solid

Analysis Batch: 53583

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

Lab Sample ID: 880-28416-1 MS

Matrix: Solid

Analysis Batch: 53583

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	79.5		249	314.5		mg/Kg		95	90 - 110

Lab Sample ID: 880-28416-1 MSD

Matrix: Solid

Analysis Batch: 53583

Client Sample ID: H-1 (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	79.5		249	314.8		mg/Kg		95	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources

Job ID: 880-28416-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 53575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-28416-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-28416-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-28416-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-28416-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-28416-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-53575/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53575/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53575/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28403-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-28403-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 53741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53741/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 53791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-1	H-1 (0-0.5')	Total/NA	Solid	8021B	53575
880-28416-2	H-2 (0-0.5')	Total/NA	Solid	8021B	53575
880-28416-3	H-3 (0-0.5')	Total/NA	Solid	8021B	53575
880-28416-4	H-4 (0-0.5')	Total/NA	Solid	8021B	53575
880-28416-5	H-5 (0-0.5')	Total/NA	Solid	8021B	53575
880-28416-6	H-6 (0-0.5')	Total/NA	Solid	8021B	53575
MB 880-53575/5-A	Method Blank	Total/NA	Solid	8021B	53575
MB 880-53741/5-A	Method Blank	Total/NA	Solid	8021B	53741
LCS 880-53575/1-A	Lab Control Sample	Total/NA	Solid	8021B	53575
LCSD 880-53575/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53575
880-28403-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	53575
880-28403-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53575

Analysis Batch: 53893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28416-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28416-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28416-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28416-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28416-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 53543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28416-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28416-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28416-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28416-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28416-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-53543/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 53543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-53543/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53543/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28404-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28404-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	53543
880-28416-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	53543
880-28416-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	53543
880-28416-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	53543
880-28416-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	53543
880-28416-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	53543
MB 880-53543/1-A	Method Blank	Total/NA	Solid	8015B NM	53543
LCS 880-53543/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53543
LCSD 880-53543/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53543
880-28404-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	53543
880-28404-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53543

Analysis Batch: 53648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-28416-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-28416-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-28416-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-28416-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-28416-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28416-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-28416-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-28416-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-28416-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-28416-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-53475/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53475/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53475/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28416-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28416-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 53583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-1	H-1 (0-0.5')	Soluble	Solid	300.0	53475
880-28416-2	H-2 (0-0.5')	Soluble	Solid	300.0	53475
880-28416-3	H-3 (0-0.5')	Soluble	Solid	300.0	53475
880-28416-4	H-4 (0-0.5')	Soluble	Solid	300.0	53475
880-28416-5	H-5 (0-0.5')	Soluble	Solid	300.0	53475

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 53583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28416-6	H-6 (0-0.5')	Soluble	Solid	300.0	53475
MB 880-53475/1-A	Method Blank	Soluble	Solid	300.0	53475
LCS 880-53475/2-A	Lab Control Sample	Soluble	Solid	300.0	53475
LCSD 880-53475/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53475
880-28416-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	53475
880-28416-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	53475

Lab Chronicle

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-28416-1

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/20/23 20:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53893	05/22/23 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			53648	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53543	05/17/23 08:38	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 16:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53583	05/17/23 16:02	CH	EET MID

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

Lab Sample ID: 880-28416-2

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/20/23 20:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53893	05/22/23 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			53648	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53543	05/17/23 08:38	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 16:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53583	05/17/23 16:19	CH	EET MID

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

Lab Sample ID: 880-28416-3

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/20/23 21:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53893	05/22/23 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			53648	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53543	05/17/23 08:38	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53583	05/17/23 16:24	CH	EET MID

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

Lab Sample ID: 880-28416-4

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/15/23 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/20/23 21:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53893	05/22/23 12:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28416-4
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			53648	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53543	05/17/23 08:38	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 17:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53583	05/17/23 16:29	CH	EET MID

Client Sample ID: H-5 (0-0.5')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28416-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/20/23 21:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53893	05/22/23 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			53648	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53543	05/17/23 08:38	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 17:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53583	05/17/23 16:35	CH	EET MID

Client Sample ID: H-6 (0-0.5')
Date Collected: 05/12/23 00:00
Date Received: 05/15/23 13:20

Lab Sample ID: 880-28416-6
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			5.01 g	5 mL	53575	05/17/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53791	05/20/23 22:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53893	05/22/23 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			53648	05/18/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53543	05/17/23 08:38	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53548	05/17/23 17:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53583	05/17/23 16:51	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: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources

Job ID: 880-28416-1

Project/Site: New Mexico DD State Com #004 (02.05.16)

SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: New Mexico DD State Com #004 (02.05.16)

Job ID: 880-28416-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28416-1	H-1 (0-0.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28416-2	H-2 (0-0.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28416-3	H-3 (0-0.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28416-4	H-4 (0-0.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28416-5	H-5 (0-0.5')	Solid	05/12/23 00:00	05/15/23 13:20
880-28416-6	H-6 (0-0.5')	Solid	05/12/23 00:00	05/15/23 13:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Work Order No: 28416

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		432-813-8888		Email		laci.luig@coterra.com ashton.thielke@coterra.com	

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

ANALYSIS REQUEST

Preservative Codes

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Sample Comments

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			

Project Name		New Mexico DD State Com #004 (02.05.16)		Turn Around		Pres. Code	
Project Number		2016		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
Project Location		Eddy County, New Mexico		Due Date		Normal	
Sampler's Name		GPJ		Due Date			
PO #				Due Date			



880-28416 Chain of Custody

Comments:

Relinquished by (Signature)

Received by (Signature)

Date/Time

Date/Time

5-15-23

1320

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28416-1

SDG Number: Eddy County, New Mexico

Login Number: 28416

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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	



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

March 21, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: NEW MEXICO DD STATE COM #004 (02.05.16)

Enclosed are the results of analyses for samples received by the laboratory on 03/20/24 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/21/2024	Sampling Type:	Soil
Project Name:	NEW MEXICO DD STATE COM #004 (02	Sampling Condition:	Cool & Intact
Project Number:	2016	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO., NM		

Sample ID: CS - 1 (8.0') (H241449-01)

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	03/20/2024	ND	2.06	103	2.00	9.35	
Toluene*	<0.050	0.050	03/20/2024	ND	2.23	112	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.39	120	2.00	4.31	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	7.15	119	6.00	4.07	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/21/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	209	105	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	207	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/21/2024	Sampling Type:	Soil
Project Name:	NEW MEXICO DD STATE COM #004 (02	Sampling Condition:	Cool & Intact
Project Number:	2016	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO., NM		

Sample ID: CS - 2 (8.0') (H241449-02)

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	03/20/2024	ND	2.06	103	2.00	9.35	
Toluene*	<0.050	0.050	03/20/2024	ND	2.23	112	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.39	120	2.00	4.31	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	7.15	119	6.00	4.07	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/21/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	209	105	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	207	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/21/2024	Sampling Type:	Soil
Project Name:	NEW MEXICO DD STATE COM #004 (02	Sampling Condition:	Cool & Intact
Project Number:	2016	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO., NM		

Sample ID: SW - 1 (8.0') (H241449-03)

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	03/20/2024	ND	2.06	103	2.00	9.35	
Toluene*	<0.050	0.050	03/20/2024	ND	2.23	112	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.39	120	2.00	4.31	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	7.15	119	6.00	4.07	
Total BTEX	<0.300	0.300	03/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/21/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	209	105	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	207	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/21/2024	Sampling Type:	Soil
Project Name:	NEW MEXICO DD STATE COM #004 (02	Sampling Condition:	Cool & Intact
Project Number:	2016	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO., NM		

Sample ID: SW - 2 (8.0') (H241449-04)

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	03/20/2024	ND	2.06	103	2.00	9.35	
Toluene*	<0.050	0.050	03/20/2024	ND	2.23	112	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.39	120	2.00	4.31	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	7.15	119	6.00	4.07	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/21/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	209	105	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	207	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/21/2024	Sampling Type:	Soil
Project Name:	NEW MEXICO DD STATE COM #004 (02	Sampling Condition:	Cool & Intact
Project Number:	2016	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO., NM		

Sample ID: SW - 3 (8.0') (H241449-05)

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	03/20/2024	ND	2.06	103	2.00	9.35		
Toluene*	<0.050	0.050	03/20/2024	ND	2.23	112	2.00	4.58		
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.39	120	2.00	4.31		
Total Xylenes*	<0.150	0.150	03/20/2024	ND	7.15	119	6.00	4.07		
Total BTEX	<0.300	0.300	03/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	209	105	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	207	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/21/2024	Sampling Type:	Soil
Project Name:	NEW MEXICO DD STATE COM #004 (02	Sampling Condition:	Cool & Intact
Project Number:	2016	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO., NM		

Sample ID: SW - 4 (8.0') (H241449-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.06	103	2.00	9.35	
Toluene*	<0.050	0.050	03/20/2024	ND	2.23	112	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.39	120	2.00	4.31	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	7.15	119	6.00	4.07	
Total BTEX	<0.300	0.300	03/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/21/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	209	105	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	207	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/21/2024	Sampling Type:	Soil
Project Name:	NEW MEXICO DD STATE COM #004 (02	Sampling Condition:	Cool & Intact
Project Number:	2016	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO., NM		

Sample ID: SW - 5 (8.0') (H241449-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/20/2024	ND	2.06	103	2.00	9.35		
Toluene*	<0.050	0.050	03/20/2024	ND	2.23	112	2.00	4.58		
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.39	120	2.00	4.31		
Total Xylenes*	<0.150	0.150	03/20/2024	ND	7.15	119	6.00	4.07		
Total BTEX	<0.300	0.300	03/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	209	105	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	207	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/20/2024	Sampling Date:	03/20/2024
Reported:	03/21/2024	Sampling Type:	Soil
Project Name:	NEW MEXICO DD STATE COM #004 (02	Sampling Condition:	Cool & Intact
Project Number:	2016	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO., NM		

Sample ID: SW - 6 (8.0') (H241449-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.06	103	2.00	9.35	
Toluene*	<0.050	0.050	03/20/2024	ND	2.23	112	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.39	120	2.00	4.31	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	7.15	119	6.00	4.07	
Total BTEX	<0.300	0.300	03/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/21/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2024	ND	209	105	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/20/2024	ND	207	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/20/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

Page 1 of 1

Page 11 of 11

Released to Imaging: 4/4/2024 2:59:49 PM

APPENDIX F

CARMONA RESOURCES



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Work Plan

Cimarex Energy Co.: New Mexico DD St. Com #4
[30-015-34704|2RP-3537|

March 30, 2016

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Cimarex Energy Company

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**
Cimarex Energy Co.
New Mexico DD St. Com #4 (30-015-34704) *2RP-3537*

Dear Mr. Bratcher,

Cimarex Energy Company (Cimarex) has contracted Talon/LPE (Talon) to perform soil sampling and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The Cimarex New Mexico DD St. Com #4 is located approximately nineteen (19) miles south of Carlsbad, New Mexico. The legal location for this facility is Unit Letter J, Section 32, Township 24 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.1710014 North and -104.3118362 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Reagan-Upton association with 0 to 9 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer database, the ground water in this area is approximately 72-feet below ground surface (BGS). The referenced ground water data is presented in [Appendix II](#). Therefore the ranking for this site is a **10** based on the following:

Depth to ground water	50'-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On February 5, 2016 a dump valve malfunctioned on a 3-phase separator. The resulting pressure caused a fiberglass tank to rupture and release approximately 150bbls of produced water. The majority of the fluid (140bbls) was contained within the lined tank battery. The remaining fluid washed over the berms of the battery and remained on location. A vacuum truck was utilized to pump out the fluids within the berms. Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area utilizing a hand auger. The results of the soil sampling event are summarized in the table below.

Laboratory Results

See [Appendix IV](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	5.01	3480	115	2130
S-1	1	--	240	ND	ND
S-1	2	--	--	ND	ND
S-1	3	--	--	ND	ND
S-2	0	1.20	19600	25.3	3900
S-2	1	--	80	ND	ND
S-2	2	--	--	ND	ND
S-2	3	--	--	ND	ND
S-3	0	ND	42400	74	6790
S-3	1	--	848	ND	ND
S-3	2	--	608	ND	ND
S-3	3	--	272	ND	ND

(--) Analyte Not Tested

(ND) Analyte Not Detected

Conclusions and Proposed Remedial Actions

- The impacted area will be excavated to a depth of 1-foot BGS.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with caliche and contoured to match the surrounding location.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE


Sheldon L. Hitchcock
Project Manager


David J. Adkins
District Manager

Attachments

Appendix I Site Plan
Appendix II Groundwater Data
Appendix III Initial C-141
Appendix IV Laboratory Results

APPENDIX I

SITE PLAN

New Mexico DD St. #4

Cimarex

Legend

- Impacted Area
- Sample Location



APPENDIX II

GROUNDWATER DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02700	C		ED	1	1	3	29	24S	26E	563844	3561400*	1940	180		
C 01386	C		ED		3	1	29	24S	26E	563937	3561702*	2173	84	72	12

Average Depth to Water: 72 feet

Minimum Depth: 72 feet

Maximum Depth: 72 feet

Record Count: 2

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 564775

Northing (Y): 3559697

Radius: 2200

APPENDIX III

INITIAL C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1604026777 **OPERATOR** ☒ Initial Report ☒ Final Report

Name of Company Cimarex Energy 102883	Contact Christine Alderman
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059
Facility Name New Mexico DD State Com 4	Facility Type production

Surface Owner	Mineral Owner	API No. 30-015-34704
---------------	---------------	-----------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	32	24S	26E	1650	S	1650	E	Eddy

Latitude **32.17100** Longitude **-104.31183**

NATURE OF RELEASE

Type of Release produced water	Volume of Release 150 bbls	Volume Recovered 140 bbls
Source of Release tank	Date and Hour of Occurrence 2/5/2016	Date and Hour of Discovery 2/5/2016
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Heather Patterson	
By Whom? Christine Alderman	Date and Hour 2/5/2016	10:27 AM
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. 10:27 AM	

If a Watercourse was Impacted, Describe Fully.*

FEB 08 2016

RECEIVED

Describe Cause of Problem and Remedial Action Taken.*

The dump valve malfunctioned on a 3-phase separator. The pressure entering the tank caused it to rupture around the bottom of the fiberglass tank.

Describe Area Affected and Cleanup Action Taken.*

All but 8 bbls of fluid were contained within a lined berm and were recovered. The fluids stayed on location and were recovered.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Christine Alderman	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist: [Signature]	
Title: ESH Supervisor	Approval Date: 2/9/16	Expiration Date: N/A
E-mail Address: calderman@cimarex.com	Conditions of Approval: FINAL	Attached <input type="checkbox"/>
Date: 2/8/2016 Phone: 432-853-7059		

* Attach Additional Sheets If Necessary

2RP-3537

APPENDIX IV

LABORATORY RESULTS



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

March 28, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NEW MEXICO DD ST. COM #4

Enclosed are the results of analyses for samples received by the laboratory on 03/17/16 10:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 0' (H600588-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2016	ND	2.17	109	2.00	8.02	
Toluene*	0.188	0.050	03/21/2016	ND	2.09	104	2.00	8.09	
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35	
Total Xylenes*	4.82	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33	
Total BTEX	5.01	0.300	03/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	03/18/2016	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	115	10.0	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	2130	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 118 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 1' (H600588-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/18/2016	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	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14	
Surrogate: 1-Chlorooctane		87.8 %	35-147						
Surrogate: 1-Chlorooctadecane		91.4 %	28-171						

Sample ID: S-1 2' (H600588-03)

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39		
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14		
Surrogate: 1-Chlorooctane	87.8 %	35-147								
Surrogate: 1-Chlorooctadecane	92.0 %	28-171								

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Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 3' (H600588-04)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14	
Surrogate: 1-Chlorooctane	90.8 %	35-147							
Surrogate: 1-Chlorooctadecane	93.1 %	28-171							

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Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 0' (H600588-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2016	ND	2.17	109	2.00	8.02	
Toluene*	0.073	0.050	03/21/2016	ND	2.09	104	2.00	8.09	
Ethylbenzene*	0.064	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35	
Total Xylenes*	1.07	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33	
Total BTEX	1.20	0.300	03/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	03/18/2016	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	25.3	10.0	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	3900	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 88.1 % 35-147

Surrogate: 1-Chlorooctadecane 160 % 28-171

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Received by OCD: 3/29/2024 8:57:32 AM

Released to Imaging: 4/4/2024 2:59:49 PM



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Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 1' (H600588-06)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/18/2016	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	03/24/2016	ND	189	94.4	200	1.39		
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14		
Surrogate: 1-Chlorooctane	89.8 %	35-147								
Surrogate: 1-Chlorooctadecane	93.1 %	28-171								

Sample ID: S-2 2' (H600588-07)

TPH 8015M			mg/kg Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39		
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14		
Surrogate: 1-Chlorooctane	92.3 %	35-147								
Surrogate: 1-Chlorooctadecane	94.6 %	28-171								

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 3' (H600588-08)

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39		
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14		
<hr/>										
Surrogate: 1-Chlorooctane	82.1 %	35-147								
Surrogate: 1-Chlorooctadecane	87.5 %	28-171								

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 0' (H600588-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2016	ND	2.17	109	2.00	8.02		
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09		
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35		
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33		
Total BTX	<0.300	0.300	03/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	03/18/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	74.0	10.0	03/18/2016	ND	177	88.7	200	0.503		
DRO >C10-C28	6790	10.0	03/18/2016	ND	178	89.2	200	0.477		

Surrogate: 1-Chlorooctane 73.4 % 35-147

Surrogate: 1-Chlorooctadecane 286 % 28-171

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 1' (H600588-10)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	03/18/2016	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	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14	
Surrogate: 1-Chlorooctane	77.6 %	35-147							
Surrogate: 1-Chlorooctadecane	81.3 %	28-171							

Sample ID: S-3 2' (H600588-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	03/18/2016	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	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14	
Surrogate: 1-Chlorooctane	81.9 %	35-147							
Surrogate: 1-Chlorooctadecane	85.1 %	28-171							

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/28/2016	Sampling Type:	Soil
Project Name:	NEW MEXICO DD ST. COM #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 3' (H600588-12)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/18/2016	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	03/24/2016	ND	189	94.4	200	1.39		
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	185	92.3	200	1.14		
Surrogate: 1-Chlorooctane	78.3 %	35-147								
Surrogate: 1-Chlorooctadecane	81.4 %	28-171								

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon/LPE
Project Manager:

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #:

Project Owner:

Project Name: New Mexico DD Stream #4

City:

State:

Zip:

Project Location:

Phone #: 575-725-7674

Sample Name: S. Hinchcock

Fax #:

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #: Cimarex

Company: Talon/LPE

Attn: Max Papp

Address:

City:

State:

Zip:

Fax #:

Lab I.D. Sample I.D.

HL00588

5-10'

5-11'

5-12'

5-13'

5-20'

5-21'

5-22'

5-23'

5-30'

5-31'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE

ICE / COOL

OTHER :

DATE

TIME

TPH * 3/23/16 Added
BTEX
Chlorides

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Relinquished By:

Date: 3/16/16 Received By:

Sheldon Nien

Date:

Received By:

Sheldon Nien

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

542

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☒

CHECKED BY: (initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Stop at if less than 250
3/23: Sheldon added TPH to all.

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



Page 13 of 13

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QUESTIONS

Action 328033

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 328033
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1604026777
Incident Name	NAB1604026777 NEW MEXICO DD STATE COM #004 @ 30-015-34704
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-34704] NEW MEXICO DD STATE COM #004

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NEW MEXICO DD STATE COM #004
Date Release Discovered	02/05/2016
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Tank (Any) Produced Water Released: 150 BBL Recovered: 140 BBL Lost: 10 BBL.
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)	Not answered.

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QUESTIONS, Page 2

Action 328033

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	328033
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/29/2024
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QUESTIONS, Page 3

Action 328033

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 328033
	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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	19000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	6864
GRO+DRO	(EPA SW-846 Method 8015M)	6864
BTEX	(EPA SW-846 Method 8021B or 8260B)	5.1
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	03/20/2024
On what date will (or did) the final sampling or liner inspection occur	03/20/2024
On what date will (or was) the remediation complete(d)	03/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	360
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	360
What is the estimated volume (in cubic yards) that will be remediated	140

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, Page 4

Action 328033

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	328033
	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	LEA LAND LANDFILL [fEEM0112342028]
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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/29/2024
--	---

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

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QUESTIONS, Page 5

Action 328033

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 328033
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 328033

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	328033
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	323906
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	420

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	360
What was the total volume (cubic yards) remediated	140
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)	Resampled the historical spill area to confirm if any remediation was previously completed. Excavated areas that exceeded remediation cleanup standards to a depth of 8', where everything cleaned up. Disposed material at landfill and backfilled with clean material.

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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/29/2024
--	---

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7

Action 328033

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 328033
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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CONDITIONS

Action 328033

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	162683
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	328033
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/4/2024