



SITE INFORMATION

Closure Report
Copperhead Fee 31E CTB (05.27.2024)
Eddy County, New Mexico
Incident ID: NAPP2416339425
Unit F Sec 31 T26S R29E
32.0002°, -104.0252°

Produced Water Release
Point of Release: Flex line ruptured
Release Date: 05.27.2024
Volume Released: 9.6666 barrels of Produced Water
Volume Recovered: 0 barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Concho Operating, LLC
15 West London Road
Loving, New Mexico 88256

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

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September 11, 2024

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

**Re: Closure Report
Copperhead fee 31E CTB
Concho Operating, LLC
Incident # NAPP2416339425
Site Location: Unit F, S31, T26S, R29E
(Lat 32.0002°, Long -104.0252°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC. (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Copperhead fee 31E CTB (05.27.2024). The site is located at 32.0002°, -104.0252° within Unit F, S31, T26S, and R29E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release form obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 27, 2024, due to a rupture in a flex line. It resulted in approximately nine point six thousand six hundred-sixty-six (9.6666) barrels of produced water, with zero (0) barrels recovered. The impacted area occurred on the pad and is shown in Figure 3. The Notice of Release 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 groundwater determination bore is located approximately 0.40 miles West of the site in S31, T26S, R29E, and was drilled on May 9, 2022. The determination bore was drilled to a depth of 55' below the ground surface (ft bgs). The determination bore was revisited on May 13, 2022, and no presence of groundwater was found during that time. A copy of the associated NMOSE Well Record and Log is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12, 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: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 10,000 mg/kg.

4.0 Site Assessment Activities

On July 10, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of five (5) sample points (S-1 and S-5) and nine (9) horizontal sample points (H-1 through H-9) were advanced to depths ranging from the surface to 3.0' bgs inside and surrounding the release area to assess the vertical and horizontal extent of the contamination. Refer to Figure 3 for the initial sample locations. For chemical analysis, the soil samples were collected and placed directly into



laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

5.0 Remediation Activities

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on August 7, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. A total of eighteen (18) confirmation floor samples (CS-1 and CS-18) and eight (8) sidewall samples (SW-1 through SW-10) 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 displayed in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The material utilized for backfill was sourced from the Onsurez Backfill Pit, located at GPS 32.308151, -104.063288. The pit sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 200 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Reclamation Activities

The site was re-seeded on August 15, 2024. The seed mixture was spread by hand. Topsoil matching the surrounding areas was raked back on top of the seed after being broadcast. The seed mixture used was the BLM Seed Mix #1 (See attachments in Appendix E). See Figure 5 for the reclamation area.

7.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. COG formally requests the closure of this incident. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

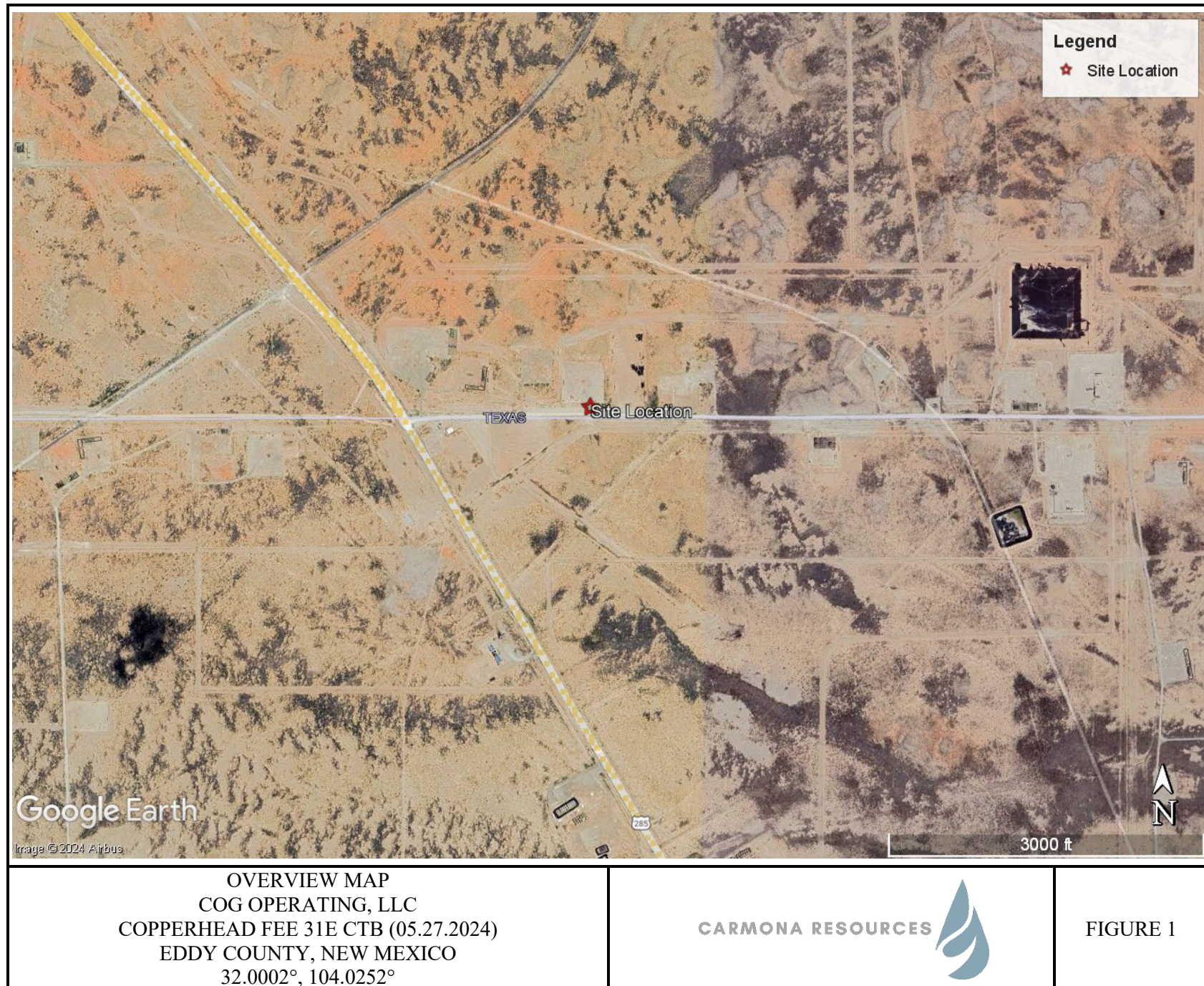
Conner Moehring
Sr. Project Manager

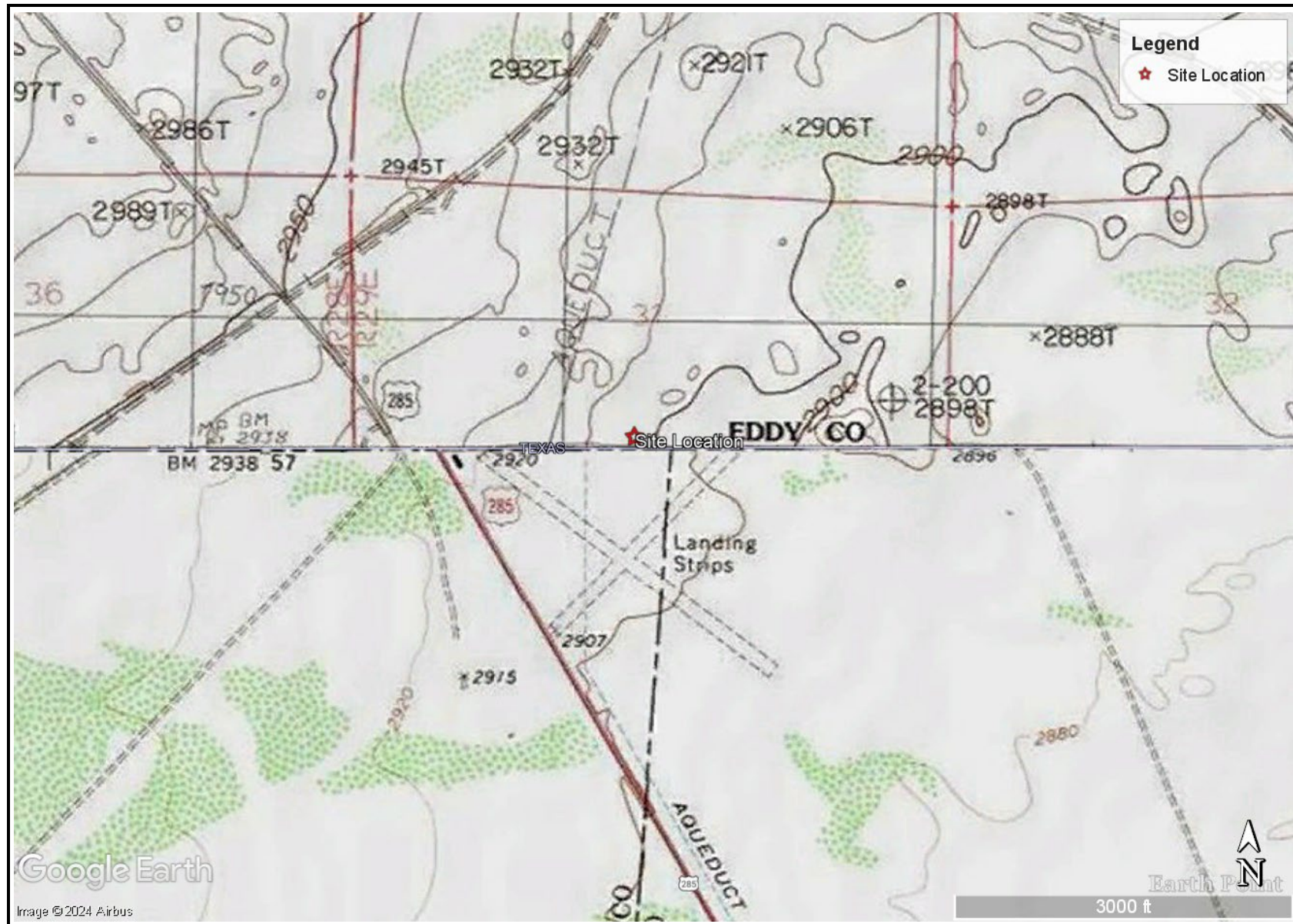
Devin Dominguez
Sr. Project Manager

FIGURES

CARMONA RESOURCES





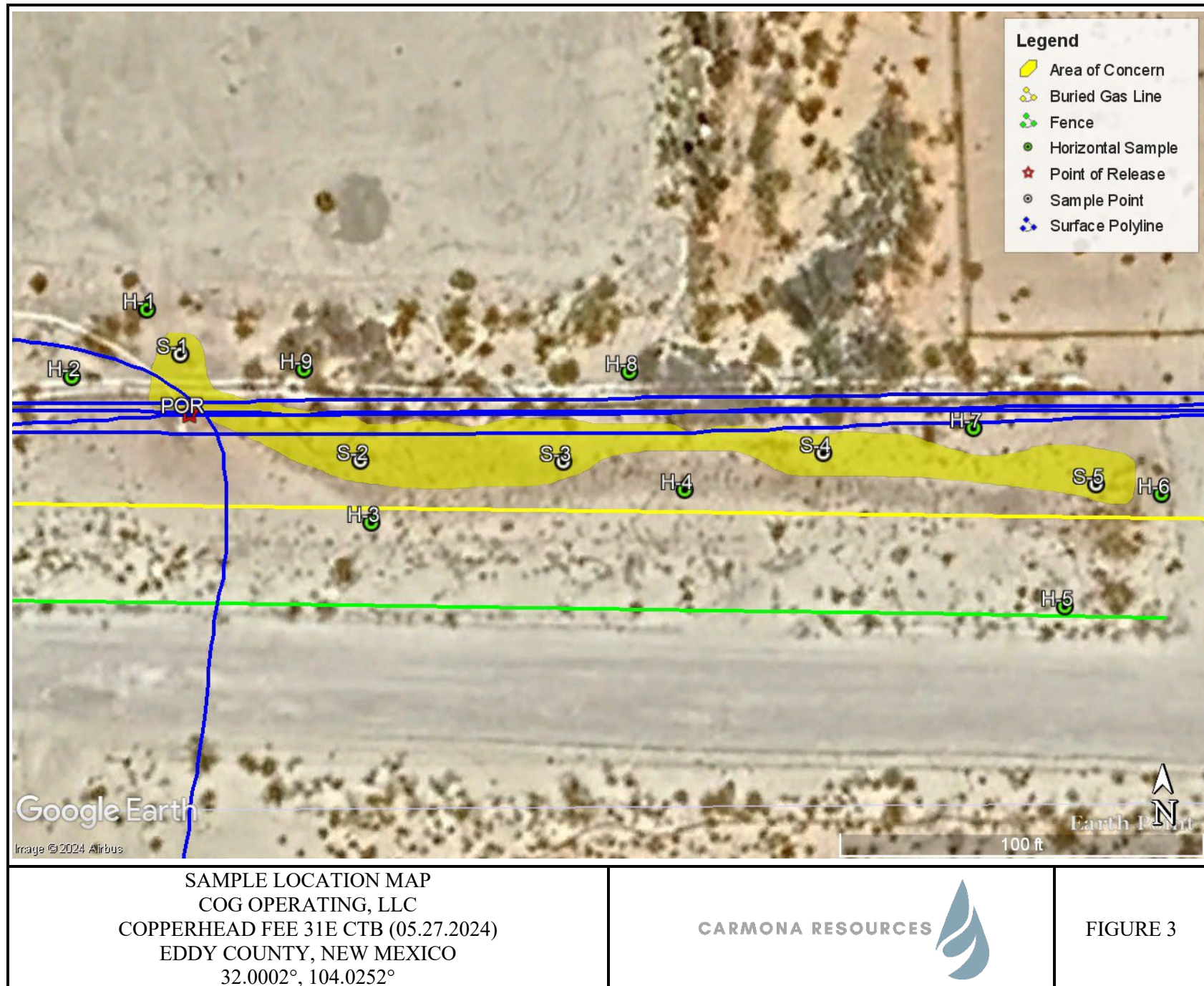


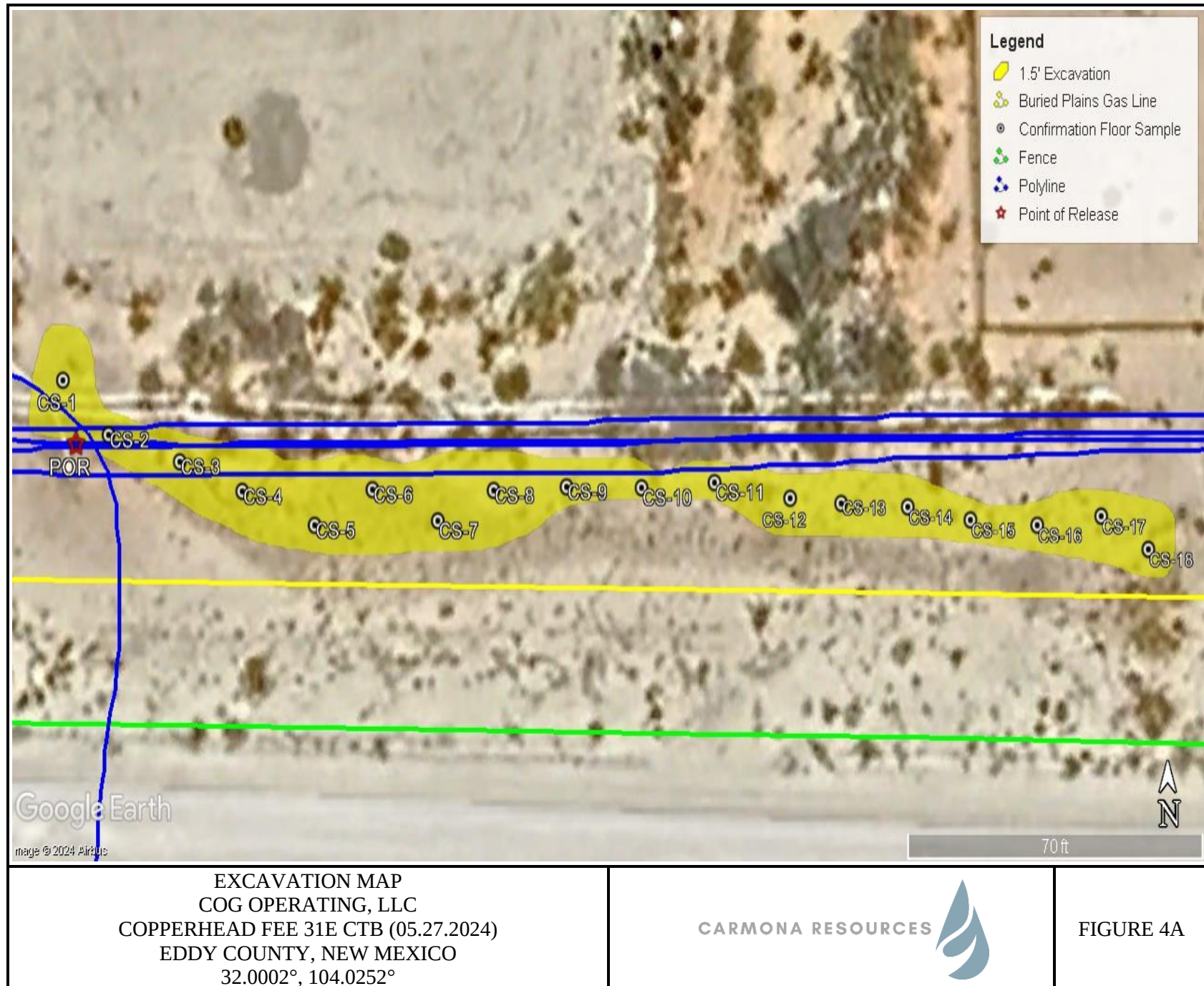
TOPOGRAPHIC MAP
COG OPERATING, LLC
COPPERHEAD FEE 31E CTB (05.27.2024)
EDDY COUNTY, NEW MEXICO
32.0002°, 104.0252°

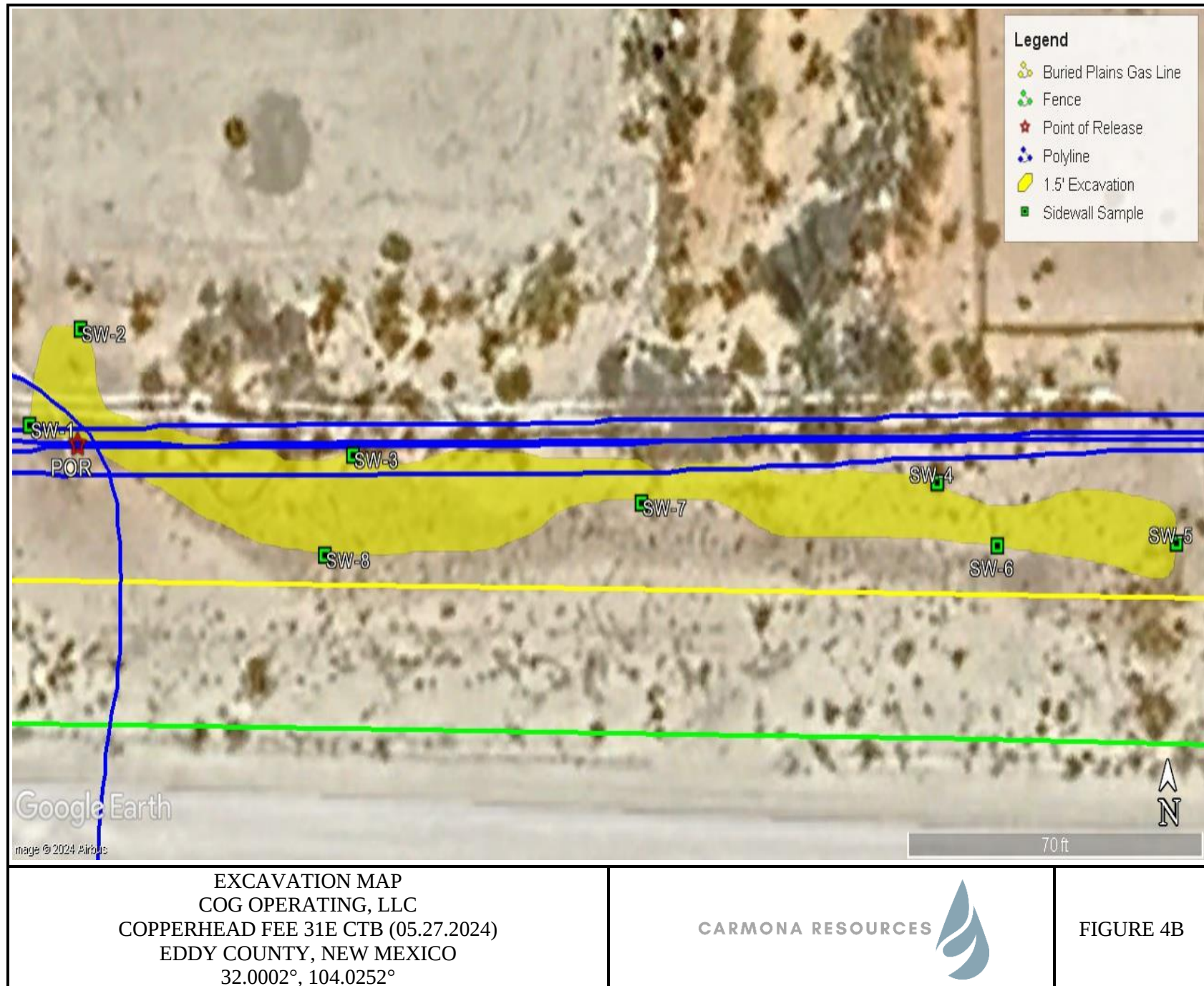
CARMONA RESOURCES

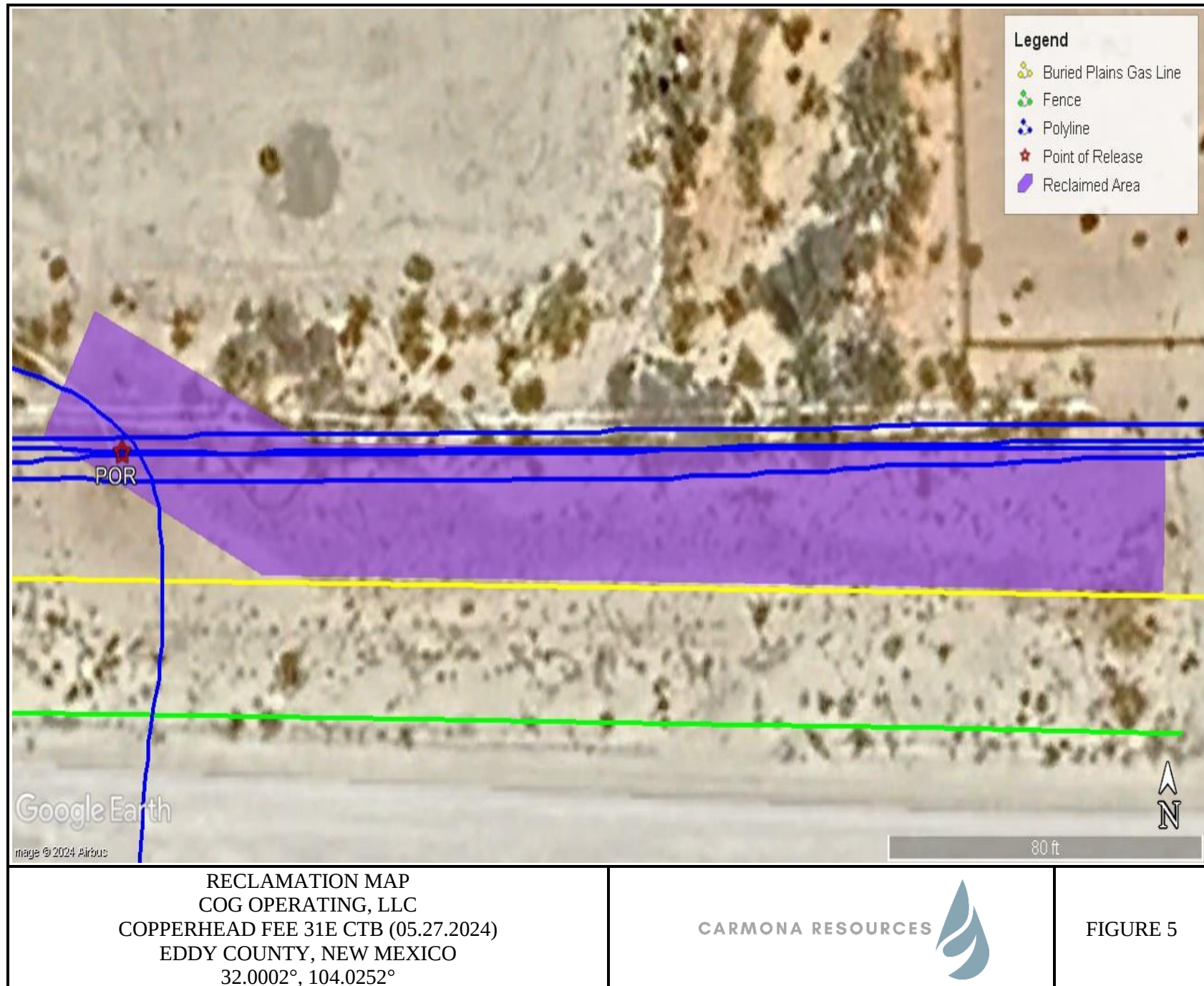


FIGURE 2









APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating
Copperhead Fee 31E CTB
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	7/10/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5,390
S-2	7/10/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,470
S-3	7/10/2024	0-1'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	4,390
S-4	7/10/2024	0-1'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,990
S-5	7/10/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	5,210
H-1	7/10/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,380
H-2	7/10/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	2,520
H-3	7/10/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,980
H-4	7/10/2024	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	773
H-5	7/10/2024	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	639
H-6	7/10/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	548
H-7	7/10/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	300
H-8	7/10/2024	0-0.5'	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	304
H-9	7/10/2024	0-0.5'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	287
Regulatory Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

(H) Horizontal Sample Point

 Removed

Table 2
COG Operating
Copperhead Fee 31 E CTB (05.27.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	8/9/2024	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	72.5
CS-2	8/9/2024	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	55.3
CS-3	8/9/2024	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	99.7
CS-4	8/9/2024	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	39.5
CS-5	8/9/2024	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	71.6
CS-6	8/9/2024	1.5'	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	60.6
CS-7	8/9/2024	1.5'	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	65.7
CS-8	8/9/2024	1.5'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	58.9
CS-9	8/9/2024	1.5'	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	63.9
CS-10	8/9/2024	1.5'	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	12.9
CS-11	8/9/2024	1.5'	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	61.3
CS-12	8/9/2024	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	104
CS-13	8/9/2024	1.5'	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	39.9
CS-14	8/9/2024	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	93.2
CS-15	8/9/2024	1.5'	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	36.3
CS-16	8/9/2024	1.5'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	39.2
CS-17	8/9/2024	1.5'	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.1
CS-18	8/9/2024	1.5'	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	38.9
Regulatory Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

Table 2
COG Operating
Copperhead Fee 31 E CTB (05.27.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
SW-1	8/9/2024	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	66.1
SW-2	8/9/2024	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	52.3
SW-3	8/9/2024	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	99.5
SW-4	8/9/2024	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	30.4
SW-5	8/9/2024	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	111
SW-6	8/9/2024	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	72.2
SW-7	8/9/2024	1.5'	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	97.4
SW-8	8/9/2024	1.5'	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	73.5
Onsurez Pit	8/6/2024	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.4
Regulatory Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

COG Operating

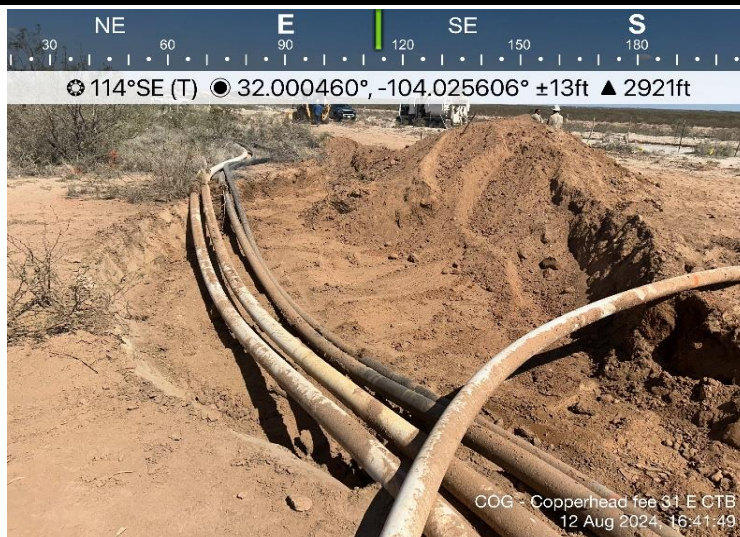
Photograph No. 1

Facility: Copperhead Fee 31E CTB
(05.27.2024)

County: Eddy County, New Mexico

Description:

View Southeast area of CS 1-8.



Photograph No. 2

Facility: Copperhead Fee 31E CTB
(05.27.2024)

County: Eddy County, New Mexico

Description:

View Northwest area of CS 7-11.



Photograph No. 3

Facility: Copperhead Fee 31E CTB
(05.27.2024)

County: Eddy County, New Mexico

Description:

View East area of CS 9-12.



PHOTOGRAPHIC LOG

COG Operating

Photograph No. 4

Facility: Copperhead Fee 31E CTB
(05.27.2024)

County: Eddy County, New Mexico

Description:

View West area of CS 11-18.



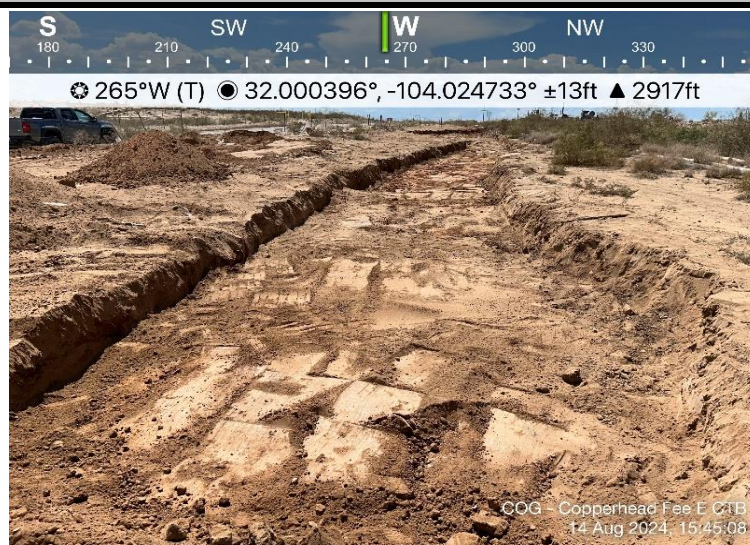
Photograph No. 5

Facility: Copperhead Fee 31E CTB
(05.27.2024)

County: Eddy County, New Mexico

Description:

View West area of CS 13-18.



Photograph No. 6

Facility: Copperhead Fee 31E CTB
(05.27.2024)

County: Eddy County, New Mexico

Description:

View Northeast, backfilled area.



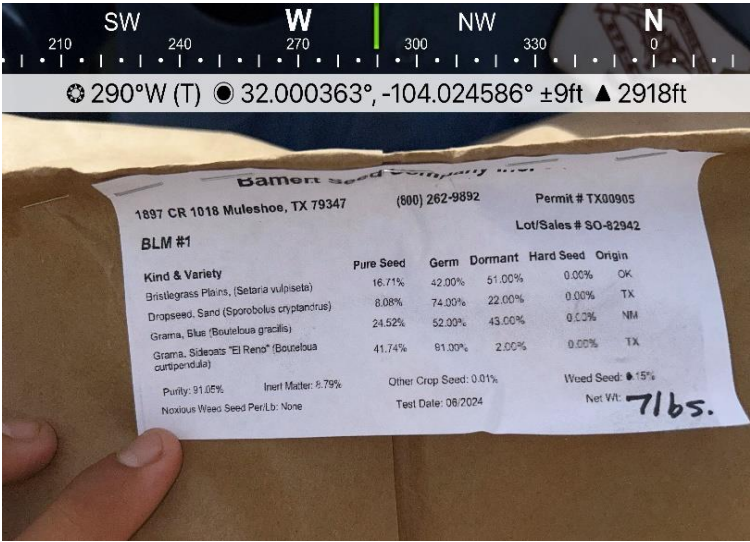
PHOTOGRAPHIC LOG
COG Operating

Photograph No. 7

Facility: Copperhead Fee 31E CTB
(05.27.2024)

County: Eddy County, New Mexico

Description:
View of the seed mixture that was used to reseed all
the disturbed areas.



APPENDIX C

CARMONA RESOURCES



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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☐ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health and the environment.	
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u>Battani Espinoza</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Spill Calculation - On-Pad Surface Pool Spill

Received by OCD: 9/12/2024 10:15:14 AM

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Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	18	12	0.3	216.00	0.80	0.00	0.80
Rectangle B	18	12	0.3	216.00	0.80	0.00	0.80
Rectangle C	41	24	0.3	984.00	3.65	0.00	3.65
Rectangle D	126	6	0.3	756.00	2.80	0.00	2.81
Rectangle E	12	36	0.3	432.00	1.60	0.00	1.60
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00
Total Surface Pool Volume Released, Release to Soil/Caliche:							9.6666

Released to Imaging: 10/1/2024 11:24:07AM

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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 353015

QUESTIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 353015
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416339425
Incident Name	NAPP2416339425 COPPERHEAD FEE 31E CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2203846942] COPPERHEAD 31 FED BATTERY

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Copperhead Fee 31E CTB
Date Release Discovered	05/27/2024
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 353015

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 353015
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/11/2024
--	---

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QUESTIONS, Page 3

Action 353015

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 353015
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan

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

Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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CONDITIONS

Action 353015

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 353015
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/11/2024

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Santa Fe, NM 87505

QUESTIONS

Action 371296

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371296
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416339425
Incident Name	NAPP2416339425 COPPERHEAD FEE 31E CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203846942] COPPERHEAD 31 FED BATTERY

Location of Release Source

Site Name	Copperhead Fee 31E CTB
Date Release Discovered	05/27/2024
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	3,350
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Conner Moerhring (432) 813- 6823
Please provide any information necessary for navigation to sampling site	Coordinates on C-141

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CONDITIONS

Action 371296

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371296
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/7/2024

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: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX D

CARMONA RESOURCES



Nearest water well

COG Operating

Legend

- 0.40 Miles
- 0.50 Mile Radius
- Copperhead Fee 31E CTB (05.27.2024)
- Groundwater Determination Bore



55' - GWDB - 04.25.2022

Copperhead Fee 31E CTB (05.27.2024)



2000 ft

Medium Karst

COG Operating

Legend

- Copperhead Fee 31E CTB (05.27.2024)
- Medium

Copperhead Fee 31E CTB (05.27.2024)



2000 ft



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 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 04022 POD2	CUB	ED		2	2	2	27	26S	28E	588106	3543082	4543	250	145	105
C 03605 POD1	CUB	ED		4	2	3	27	26S	29E	596990	3541983	5036	45	0	45
C 04630 POD1	CUB	ED		3	4	3	22	26S	29E	596792	3543275	5291			
C 02160	CUB	ED		4	1	2	14	26S	28E	589243	3546044*	5896	300	120	180

Average Depth to Water: **88 feet**

Minimum Depth: **0 feet**

Maximum Depth: **145 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 592076.83

Northing (Y): 3540872.96

Radius: 6000

*UTM location was derived from PLSS - see Help

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

6/13/24 5:58 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

CARMONA RESOURCES



Project Name : COG - Copperhead Fee 31E CTB (01.14.22)
 Project No. : 1002
 Location : Eddy County, New Mexico
 Coordinates : 32.002359, -104.031693
 Elevation : 2,930'

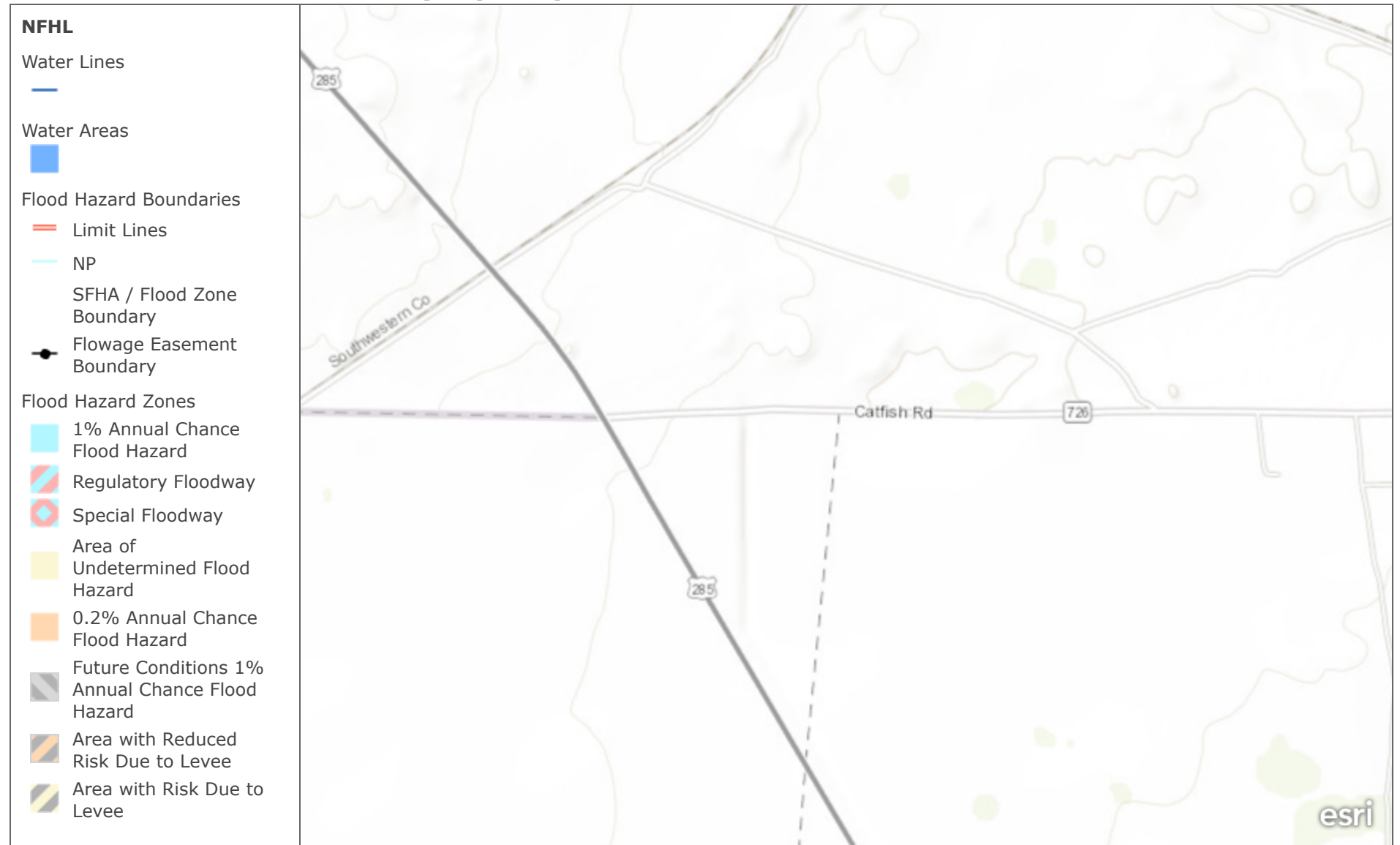
Date : Monday, May 9, 2022
 Sampler : Lane Scarborough
 Driller : Scarborough Drilling
 Method : Air Rotary

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		50		(50') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)	
5		(5') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		55		(55') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)	
10		(10') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		60			
12		(12') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		65			
15		(15') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		70			
20		(20') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		75			
25		(25') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		80			
30		(30') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		85			
35		(35') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		90			
40		(40') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		95			
45		(45') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		105			
50							

Comments : Boring terminated at 55' at 10:00 AM Central Time with no presence of groundwater or moisture.

Well gauged on 5/13/22 at 11:00 AM Central Time with no detection of groundwater or moisture

FEMA National Flood Hazard Layer (NFHL)



FEMA flood layer

0.3mi

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)



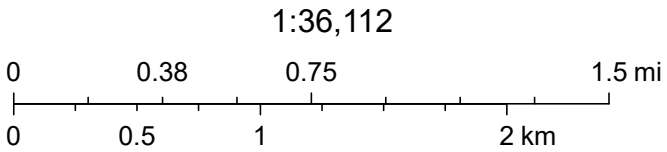
Maxar | Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Copperhead Fee 31E CTB (05.27.2024)



6/13/2024, 6:55:25 PM

- OSW Water Bodys
- OSE Streams



Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, NM OSE

APPENDIX E

CARMONA RESOURCES





Environment Testing

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- 8
- 9
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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/12/2024 2:23:48 PM

JOB DESCRIPTION

Copperhead Fee 31 E CTB (05.27.24)
Eddy County, New Mexico

JOB NUMBER

880-45846-1

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
7/12/2024 2:23:48 PM

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

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Laboratory Job ID: 880-45846-1
SDG: Eddy County, New Mexico

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QC Association Summary	17
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Chain of Custody	25
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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low 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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1

Job ID: 880-45846-1

Eurofins Midland

Job Narrative 880-45846-1

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

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

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

Receipt

The samples were received on 7/11/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.8°C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-45846-1), S-2 (0-1') (880-45846-2), S-3 (0-1') (880-45846-3) and S-5 (0-1') (880-45846-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-85417/1-A) and (890-6921-A-1-E MS). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-85417 and analytical batch 880-85411 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-85487 and analytical batch 880-85291 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85466 and analytical batch 880-85496 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-3 (0-1') (880-45846-3). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-85496/6), (880-45845-A-1-B MS) and (880-45845-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-85466 and analytical batch 880-85496 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

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

HPLC/IC

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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45846-1

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 16:18	07/11/24 17:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/11/24 16:18	07/11/24 17:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/11/24 16:18	07/11/24 17:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/11/24 16:18	07/11/24 17:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/11/24 16:18	07/11/24 17:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/11/24 16:18	07/11/24 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	07/11/24 16:18	07/11/24 17:13	1
1,4-Difluorobenzene (Surr)	119		70 - 130	07/11/24 16:18	07/11/24 17:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/11/24 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/11/24 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/11/24 12:58	07/11/24 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/11/24 12:58	07/11/24 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/11/24 12:58	07/11/24 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	07/11/24 12:58	07/11/24 19:10	1
o-Terphenyl	74		70 - 130	07/11/24 12:58	07/11/24 19:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5390		50.2		mg/Kg			07/11/24 20:44	10

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-45846-2

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 16:18	07/11/24 17:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/24 16:18	07/11/24 17:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/24 16:18	07/11/24 17:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/11/24 16:18	07/11/24 17:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/24 16:18	07/11/24 17:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/11/24 16:18	07/11/24 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	07/11/24 16:18	07/11/24 17:33	1
1,4-Difluorobenzene (Surr)	106		70 - 130	07/11/24 16:18	07/11/24 17:33	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-45846-2

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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			07/11/24 17:33	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			07/11/24 19:25	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		07/11/24 12:58	07/11/24 19:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/11/24 12:58	07/11/24 19:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/11/24 12:58	07/11/24 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				07/11/24 12:58	07/11/24 19:25	1
o-Terphenyl	72		70 - 130				07/11/24 12:58	07/11/24 19:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4470		49.5		mg/Kg			07/11/24 20:51	10

Client Sample ID: S-3 (0-1')

Lab Sample ID: 880-45846-3

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/12/24 00:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 00:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 00:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/11/24 14:49	07/12/24 00:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 00:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/11/24 14:49	07/12/24 00:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130				07/11/24 14:49	07/12/24 00:16	1
1,4-Difluorobenzene (Surr)	87		70 - 130				07/11/24 14:49	07/12/24 00:16	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			07/12/24 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/11/24 19:40	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	<49.7	U	49.7		mg/Kg		07/11/24 12:58	07/11/24 19:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/11/24 12:58	07/11/24 19:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (0-1')

Lab Sample ID: 880-45846-3

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/11/24 12:58	07/11/24 19:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				07/11/24 12:58	07/11/24 19:40	1
o-Terphenyl	59	S1-	70 - 130				07/11/24 12:58	07/11/24 19:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4390		49.6		mg/Kg			07/11/24 21:13	10

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-45846-4

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/12/24 00:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/12/24 00:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/12/24 00:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/11/24 14:49	07/12/24 00:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/12/24 00:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/11/24 14:49	07/12/24 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				07/11/24 14:49	07/12/24 00:43	1
1,4-Difluorobenzene (Surr)	78		70 - 130				07/11/24 14:49	07/12/24 00:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/12/24 00:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/11/24 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/11/24 12:58	07/11/24 19:55	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/11/24 12:58	07/11/24 19:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/11/24 12:58	07/11/24 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/11/24 12:58	07/11/24 19:55	1
o-Terphenyl	77		70 - 130				07/11/24 12:58	07/11/24 19:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4990		49.8		mg/Kg			07/11/24 21:20	10

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-45846-5

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/12/24 01:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 01:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 01:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/11/24 14:49	07/12/24 01:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 01:10	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/11/24 14:49	07/12/24 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	07/11/24 14:49	07/12/24 01:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/11/24 14:49	07/12/24 01:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/12/24 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/11/24 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/11/24 12:58	07/11/24 20:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/11/24 12:58	07/11/24 20:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/11/24 12:58	07/11/24 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/11/24 12:58	07/11/24 20:10	1
o-Terphenyl	82		70 - 130	07/11/24 12:58	07/11/24 20:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5210		50.2		mg/Kg			07/11/24 21:28	10

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Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-45846-1	S-1 (0-1')	132 S1+	119
880-45846-2	S-2 (0-1')	129	106
880-45846-3	S-3 (0-1')	154 S1+	87
880-45846-4	S-4 (0-1')	128	78
880-45846-5	S-5 (0-1')	142 S1+	89
880-45849-A-1-C MS	Matrix Spike	128	99
880-45849-A-1-D MSD	Matrix Spike Duplicate	125	89
890-6921-A-1-E MS	Matrix Spike	131 S1+	104
890-6921-A-1-F MSD	Matrix Spike Duplicate	123	101
LCS 880-85417/1-A	Lab Control Sample	132 S1+	108
LCS 880-85487/1-A	Lab Control Sample	124	86
LCSD 880-85417/2-A	Lab Control Sample Dup	122	99
LCSD 880-85487/2-A	Lab Control Sample Dup	108	94
MB 880-85417/5-A	Method Blank	216 S1+	129
MB 880-85487/5-A	Method Blank	74	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-45845-A-1-B MS	Matrix Spike	81	69 S1-
880-45845-A-1-C MSD	Matrix Spike Duplicate	82	69 S1-
880-45846-1	S-1 (0-1')	79	74
880-45846-2	S-2 (0-1')	77	72
880-45846-3	S-3 (0-1')	63 S1-	59 S1-
880-45846-4	S-4 (0-1')	83	77
880-45846-5	S-5 (0-1')	87	82
LCS 880-85466/2-A	Lab Control Sample	84	72
LCSD 880-85466/3-A	Lab Control Sample Dup	87	74
MB 880-85466/1-A	Method Blank	82	96
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-85417/5-A

Matrix: Solid

Analysis Batch: 85411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 85417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/24 08:18	07/11/24 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/24 08:18	07/11/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/24 08:18	07/11/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/24 08:18	07/11/24 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/24 08:18	07/11/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/24 08:18	07/11/24 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	216	S1+	70 - 130	07/11/24 08:18	07/11/24 11:08	1
1,4-Difluorobenzene (Surr)	129		70 - 130	07/11/24 08:18	07/11/24 11:08	1

Lab Sample ID: LCS 880-85417/1-A

Matrix: Solid

Analysis Batch: 85411

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1111		mg/Kg		111	70 - 130
Toluene	0.100	0.09002		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-85417/2-A

Matrix: Solid

Analysis Batch: 85411

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 85417

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1137		mg/Kg		114	70 - 130	2	35
Toluene	0.100	0.09494		mg/Kg		95	70 - 130	5	35
Ethylbenzene	0.100	0.1083		mg/Kg		108	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2228		mg/Kg		111	70 - 130	1	35
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-6921-A-1-E MS

Matrix: Solid

Analysis Batch: 85411

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 85417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1117		mg/Kg		112	70 - 130
Toluene	<0.00200	U	0.100	0.09328		mg/Kg		93	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources

Job ID: 880-45846-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-6921-A-1-E MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 85411

Prep Batch: 85417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1160		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2261		mg/Kg		113	70 - 130
o-Xylene	<0.00200	U	0.100	0.1130		mg/Kg		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-6921-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 85411

Prep Batch: 85417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1133		mg/Kg		113	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.09305		mg/Kg		93	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.1081		mg/Kg		108	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2191		mg/Kg		110	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.1115		mg/Kg		111	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-85487/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 85291

Prep Batch: 85487

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/24 14:49	07/11/24 17:37	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	07/11/24 14:49	07/11/24 17:37	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/11/24 14:49	07/11/24 17:37	1

Lab Sample ID: LCS 880-85487/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 85291

Prep Batch: 85487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1111		mg/Kg		111	70 - 130
Toluene	0.100	0.1114		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1088		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2345		mg/Kg		117	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-85487/1-A

Matrix: Solid

Analysis Batch: 85291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-85487/2-A

Matrix: Solid

Analysis Batch: 85291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 85487

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1270		mg/Kg		127	70 - 130	13	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	0	35
Ethylbenzene	0.100	0.1080		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2323		mg/Kg		116	70 - 130	1	35
o-Xylene	0.100	0.1131		mg/Kg		113	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-45849-A-1-C MS

Matrix: Solid

Analysis Batch: 85291

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 85487

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.101	0.05671	F1	mg/Kg		56	70 - 130
Toluene	<0.00199	U F1 F2	0.101	0.04931	F1	mg/Kg		49	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.101	0.05103	F1	mg/Kg		51	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.202	0.1096	F1	mg/Kg		54	70 - 130
o-Xylene	<0.00199	U F1 F2	0.101	0.05423	F1	mg/Kg		54	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-45849-A-1-D MSD

Matrix: Solid

Analysis Batch: 85291

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 85487

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0992	0.1030	F2	mg/Kg		104	70 - 130	58	35
Toluene	<0.00199	U F1 F2	0.0992	0.09961	F2	mg/Kg		100	70 - 130	68	35
Ethylbenzene	<0.00199	U F1 F2	0.0992	0.09775	F2	mg/Kg		99	70 - 130	63	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.198	0.2102	F2	mg/Kg		106	70 - 130	63	35
o-Xylene	<0.00199	U F1 F2	0.0992	0.1027	F2	mg/Kg		104	70 - 130	62	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-A-1-D MSD				Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 85291				Prep Batch: 85487			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	125		70 - 130				
1,4-Difluorobenzene (Surr)	89		70 - 130				

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

Lab Sample ID: MB 880-85466/1-A							Client Sample ID: Method Blank				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 85496							Prep Batch: 85466				
	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/11/24 11:58	07/11/24 12:30		1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/11/24 11:58	07/11/24 12:30		1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/11/24 11:58	07/11/24 12:30		1	
	MB	MB									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
1-Chlorooctane	82		70 - 130				07/11/24 11:58	07/11/24 12:30		1	
o-Terphenyl	96		70 - 130				07/11/24 11:58	07/11/24 12:30		1	

Lab Sample ID: LCS 880-85466/2-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 85496						Prep Batch: 85466					
Analyte			Spike	LCS	LCS				%Rec		
			Added	Result	Qualifier	Unit	D	%Rec	Limits		
	Gasoline Range Organics (GRO)-C6-C10			1000	874.8	mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	848.1	mg/Kg		85	70 - 130			
	</										

Lab Sample ID: LCSD 880-85466/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 85496						Prep Batch: 85466					
			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	917.2		mg/Kg		92	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	892.6		mg/Kg		89	70 - 130	5	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	74		70 - 130								

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45845-A-1-B MS

Matrix: Solid

Analysis Batch: 85496

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 85466

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	996	649.7	F1	mg/Kg		65	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	996	563.3	F1	mg/Kg		57	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	81		70 - 130								
o-Terphenyl	69	S1-	70 - 130								

Lab Sample ID: 880-45845-A-1-C MSD

Matrix: Solid

Analysis Batch: 85496

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 85466

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	996	660.4	F1	mg/Kg		66	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	996	569.6	F1	mg/Kg		57	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	69	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-85471/1-A

Matrix: Solid

Analysis Batch: 85484

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			07/11/24 19:45	1

Lab Sample ID: LCS 880-85471/2-A

Matrix: Solid

Analysis Batch: 85484

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Chloride	250	238.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-85471/3-A

Matrix: Solid

Analysis Batch: 85484

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Chloride			250	240.1		mg/Kg		96	90 - 110	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-45845-A-1-E MS										Client Sample ID: Matrix Spike			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 85484													
	Sample	Sample	Spike	MS	MS				%Rec				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits				
Chloride	18200		4960	22700		mg/Kg		91	90 - 110				

Lab Sample ID: 880-45845-A-1-F MSD										Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 85484													
	Sample	Sample	Spike	MSD	MSD				%Rec			RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD		Limit	
Chloride	18200		4960	22690		mg/Kg		91	90 - 110	0		20	

QC Association Summary

Client: Carmona Resources

Job ID: 880-45846-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 85291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-3	S-3 (0-1')	Total/NA	Solid	8021B	85487
880-45846-4	S-4 (0-1')	Total/NA	Solid	8021B	85487
880-45846-5	S-5 (0-1')	Total/NA	Solid	8021B	85487
MB 880-85487/5-A	Method Blank	Total/NA	Solid	8021B	85487
LCS 880-85487/1-A	Lab Control Sample	Total/NA	Solid	8021B	85487
LCSD 880-85487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85487
880-45849-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	85487
880-45849-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	85487

Analysis Batch: 85411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-1	S-1 (0-1')	Total/NA	Solid	8021B	85417
880-45846-2	S-2 (0-1')	Total/NA	Solid	8021B	85417
MB 880-85417/5-A	Method Blank	Total/NA	Solid	8021B	85417
LCS 880-85417/1-A	Lab Control Sample	Total/NA	Solid	8021B	85417
LCSD 880-85417/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85417
890-6921-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	85417
890-6921-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	85417

Prep Batch: 85417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-1	S-1 (0-1')	Total/NA	Solid	5035	
880-45846-2	S-2 (0-1')	Total/NA	Solid	5035	
MB 880-85417/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-85417/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-85417/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6921-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-6921-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 85487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-3	S-3 (0-1')	Total/NA	Solid	5035	
880-45846-4	S-4 (0-1')	Total/NA	Solid	5035	
880-45846-5	S-5 (0-1')	Total/NA	Solid	5035	
MB 880-85487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-85487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-85487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45849-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-45849-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 85590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-45846-2	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-45846-3	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-45846-4	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-45846-5	S-5 (0-1')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

GC Semi VOA

Prep Batch: 85466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-45846-2	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-45846-3	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-45846-4	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-45846-5	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-85466/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85466/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45845-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-45845-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-1	S-1 (0-1')	Total/NA	Solid	8015B NM	85466
880-45846-2	S-2 (0-1')	Total/NA	Solid	8015B NM	85466
880-45846-3	S-3 (0-1')	Total/NA	Solid	8015B NM	85466
880-45846-4	S-4 (0-1')	Total/NA	Solid	8015B NM	85466
880-45846-5	S-5 (0-1')	Total/NA	Solid	8015B NM	85466
MB 880-85466/1-A	Method Blank	Total/NA	Solid	8015B NM	85466
LCS 880-85466/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85466
LCSD 880-85466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85466
880-45845-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	85466
880-45845-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	85466

Analysis Batch: 85561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-45846-2	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-45846-3	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-45846-4	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-45846-5	S-5 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 85471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-45846-2	S-2 (0-1')	Soluble	Solid	DI Leach	
880-45846-3	S-3 (0-1')	Soluble	Solid	DI Leach	
880-45846-4	S-4 (0-1')	Soluble	Solid	DI Leach	
880-45846-5	S-5 (0-1')	Soluble	Solid	DI Leach	
MB 880-85471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-85471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45845-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-45845-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 85484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-1	S-1 (0-1')	Soluble	Solid	300.0	85471
880-45846-2	S-2 (0-1')	Soluble	Solid	300.0	85471

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 85484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45846-3	S-3 (0-1')	Soluble	Solid	300.0	85471
880-45846-4	S-4 (0-1')	Soluble	Solid	300.0	85471
880-45846-5	S-5 (0-1')	Soluble	Solid	300.0	85471
MB 880-85471/1-A	Method Blank	Soluble	Solid	300.0	85471
LCS 880-85471/2-A	Lab Control Sample	Soluble	Solid	300.0	85471
LCSD 880-85471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85471
880-45845-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	85471
880-45845-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	85471

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45846-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	85417	07/11/24 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 17:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85590	07/11/24 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			85561	07/11/24 19:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85466	07/11/24 12:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85496	07/11/24 19:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	85484	07/11/24 20:44	CH	EET MID

Client Sample ID: S-2 (0-1')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45846-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	85417	07/11/24 16:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 17:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85590	07/11/24 17:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			85561	07/11/24 19:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85466	07/11/24 12:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85496	07/11/24 19:25	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	85484	07/11/24 20:51	CH	EET MID

Client Sample ID: S-3 (0-1')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45846-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/12/24 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85590	07/12/24 00:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			85561	07/11/24 19:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85466	07/11/24 12:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85496	07/11/24 19:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	85484	07/11/24 21:13	CH	EET MID

Client Sample ID: S-4 (0-1')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45846-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/12/24 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85590	07/12/24 00:43	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (0-1')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45846-4
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			85561	07/11/24 19:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85466	07/11/24 12:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85496	07/11/24 19:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	85484	07/11/24 21:20	CH	EET MID

Client Sample ID: S-5 (0-1')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45846-5
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			5.04 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/12/24 01:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85590	07/12/24 01:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			85561	07/11/24 20:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85466	07/11/24 12:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85496	07/11/24 20:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	85484	07/11/24 21:28	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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45846-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45846-1	S-1 (0-1')	Solid	07/10/24 00:00	07/11/24 12:15
880-45846-2	S-2 (0-1')	Solid	07/10/24 00:00	07/11/24 12:15
880-45846-3	S-3 (0-1')	Solid	07/10/24 00:00	07/11/24 12:15
880-45846-4	S-4 (0-1')	Solid	07/10/24 00:00	07/11/24 12:15
880-45846-5	S-5 (0-1')	Solid	07/10/24 00:00	07/11/24 12:15

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Chain of Custody



W

8880-45846 Chain of Custody

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	rmcarmona@carmonaresources.com

Work Order Comments

Program: ☐UST/☐ST ☐PRP ☐Brownfields ☐RRC ☐Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other: ☐

[illegible]

Comments: Email to Mike Carmona / micarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Norman J. Conner</i>	7/11/24	<i>[Signature]</i>	7/11/24 12:15

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-45846-1

SDG Number: Eddy County, New Mexico

Login Number: 45846

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 7/15/2024 5:23:59 PM

JOB DESCRIPTION

Copperhead Fee 31 E CTB (05.27.24)
Eddy County, New Mexico

JOB NUMBER

880-45849-1

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
7/15/2024 5:23:59 PM

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

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Laboratory Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1

Job ID: 880-45849-1

Eurofins Midland

Job Narrative 880-45849-1

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

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

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

Receipt

The samples were received on 7/11/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.8°C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-6(0-0.5') (880-45849-6) and H-8 (0-0.5') (880-45849-8). 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 and precision for preparation batch 880-85487 and analytical batch 880-85291 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85546 and analytical batch 880-85578 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (880-45775-A-12-B MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-85546 and analytical batch 880-85578 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85491 and analytical batch 880-85631 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-6928-A-7-B MS) and (890-6928-A-7-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-85491 and analytical batch 880-85631 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85557 and analytical batch 880-85608 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.

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1

Job ID: 880-45849-1 (Continued)

Eurofins Midland

Method 8015MOD_NM: The method blank for preparation batch 880-85557 and analytical batch 880-85608 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-85608 exhibited % difference of > 20% for the following analyte(s) o-Terphenyl. These results are within the labs acceptance limits and so the data has been reported.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-9 (0-0.5') (880-45849-9) and (890-6919-A-10-D MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: H-8 (0-0.5') (880-45849-8) and (890-6919-A-10-C). Percent recoveries are based on the amount spiked.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-85451 and analytical batch 880-85486 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-1

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		07/11/24 14:49	07/11/24 18:04	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		07/11/24 14:49	07/11/24 18:04	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		07/11/24 14:49	07/11/24 18:04	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		07/11/24 14:49	07/11/24 18:04	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		07/11/24 14:49	07/11/24 18:04	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		07/11/24 14:49	07/11/24 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	07/11/24 14:49	07/11/24 18:04	1
1,4-Difluorobenzene (Surr)	75		70 - 130	07/11/24 14:49	07/11/24 18:04	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			07/11/24 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/12/24 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		07/12/24 10:17	07/12/24 19:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/12/24 10:17	07/12/24 19:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/12/24 10:17	07/12/24 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	07/12/24 10:17	07/12/24 19:12	1
o-Terphenyl	83		70 - 130	07/12/24 10:17	07/12/24 19:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3380		25.1		mg/Kg			07/11/24 22:49	5

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

Lab Sample ID: 880-45849-2

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/11/24 18:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/11/24 18:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/11/24 18:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/11/24 14:49	07/11/24 18:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/11/24 18:30	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/11/24 14:49	07/11/24 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	07/11/24 14:49	07/11/24 18:30	1
1,4-Difluorobenzene (Surr)	83		70 - 130	07/11/24 14:49	07/11/24 18:30	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-2

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/11/24 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/12/24 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		07/12/24 10:17	07/12/24 19:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/12/24 10:17	07/12/24 19:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/12/24 10:17	07/12/24 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				07/12/24 10:17	07/12/24 19:30	1
o-Terphenyl	81		70 - 130				07/12/24 10:17	07/12/24 19:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2520		24.8		mg/Kg			07/11/24 22:56	5

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

Lab Sample ID: 880-45849-3

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/11/24 18:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 18:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 18:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/11/24 14:49	07/11/24 18:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 18:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/11/24 14:49	07/11/24 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				07/11/24 14:49	07/11/24 18:57	1
1,4-Difluorobenzene (Surr)	88		70 - 130				07/11/24 14:49	07/11/24 18:57	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			07/11/24 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/12/24 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		07/12/24 10:17	07/12/24 19:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/12/24 10:17	07/12/24 19:47	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-3

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/12/24 10:17	07/12/24 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				07/12/24 10:17	07/12/24 19:47	1
o-Terphenyl	81		70 - 130				07/12/24 10:17	07/12/24 19:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1980		24.9		mg/Kg			07/11/24 23:03	5

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

Lab Sample ID: 880-45849-4

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/11/24 19:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 19:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 19:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/11/24 14:49	07/11/24 19:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 19:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/11/24 14:49	07/11/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				07/11/24 14:49	07/11/24 19:24	1
1,4-Difluorobenzene (Surr)	83		70 - 130				07/11/24 14:49	07/11/24 19:24	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			07/11/24 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/12/24 20:04	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 *1	50.0		mg/Kg		07/12/24 10:17	07/12/24 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/12/24 10:17	07/12/24 20:04	1
o-Terphenyl	78		70 - 130				07/12/24 10:17	07/12/24 20:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	773		50.3		mg/Kg			07/11/24 23:11	10

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-5

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/11/24 19:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 19:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 19:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/11/24 14:49	07/11/24 19:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 19:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/11/24 14:49	07/11/24 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	07/11/24 14:49	07/11/24 19:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/11/24 14:49	07/11/24 19:51	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			07/11/24 19:51	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			07/12/24 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/12/24 10:17	07/12/24 20:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/24 10:17	07/12/24 20:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/24 10:17	07/12/24 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	07/12/24 10:17	07/12/24 20:21	1
o-Terphenyl	77		70 - 130	07/12/24 10:17	07/12/24 20:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	639		49.7		mg/Kg			07/11/24 23:18	10

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

Lab Sample ID: 880-45849-6

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/11/24 20:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/11/24 20:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/11/24 20:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/11/24 14:49	07/11/24 20:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/11/24 20:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/11/24 14:49	07/11/24 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	07/11/24 14:49	07/11/24 20:17	1
1,4-Difluorobenzene (Surr)	82		70 - 130	07/11/24 14:49	07/11/24 20:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-6

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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			07/11/24 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/12/24 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		07/12/24 10:17	07/12/24 20:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/12/24 10:17	07/12/24 20:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/12/24 10:17	07/12/24 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/12/24 10:17	07/12/24 20:38	1
o-Terphenyl	74		70 - 130				07/12/24 10:17	07/12/24 20:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	548		50.4		mg/Kg			07/11/24 23:25	10

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

Lab Sample ID: 880-45849-7

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/11/24 20:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 20:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 20:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/11/24 14:49	07/11/24 20:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/11/24 20:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/11/24 14:49	07/11/24 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				07/11/24 14:49	07/11/24 20:44	1
1,4-Difluorobenzene (Surr)	79		70 - 130				07/11/24 14:49	07/11/24 20:44	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			07/11/24 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/13/24 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		07/11/24 15:17	07/13/24 20:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/11/24 15:17	07/13/24 20:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Client Sample ID: H-7 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/11/24 15:17	07/13/24 20:48	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	82		70 - 130				07/11/24 15:17	07/13/24 20:48	1	
o-Terphenyl	71		70 - 130				07/11/24 15:17	07/13/24 20:48	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	300		4.99		mg/Kg			07/12/24 02:00	1	

Client Sample ID: H-8 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/11/24 21:10	1	
Toluene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/11/24 21:10	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/11/24 21:10	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/11/24 14:49	07/11/24 21:10	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/11/24 21:10	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/11/24 14:49	07/11/24 21:10	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				07/11/24 14:49	07/11/24 21:10	1	
1,4-Difluorobenzene (Surr)	86		70 - 130				07/11/24 14:49	07/11/24 21:10	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/11/24 21:10	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.4	U	50.4		mg/Kg			07/12/24 20:53	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		07/12/24 10:47	07/12/24 20:53	1	
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		07/12/24 10:47	07/12/24 20:53	1	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/12/24 10:47	07/12/24 20:53	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	68	S1-	70 - 130				07/12/24 10:47	07/12/24 20:53	1	
o-Terphenyl	60	S1-	70 - 130				07/12/24 10:47	07/12/24 20:53	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	304	F1	4.98		mg/Kg			07/12/24 02:07	1	

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-9

Date Collected: 07/10/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

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		07/11/24 14:49	07/11/24 21:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/11/24 21:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/11/24 21:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/11/24 14:49	07/11/24 21:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/11/24 21:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/11/24 14:49	07/11/24 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	07/11/24 14:49	07/11/24 21:37	1
1,4-Difluorobenzene (Surr)	85		70 - 130	07/11/24 14:49	07/11/24 21:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/11/24 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/12/24 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/12/24 10:47	07/12/24 21:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/12/24 10:47	07/12/24 21:08	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/12/24 10:47	07/12/24 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	07/12/24 10:47	07/12/24 21:08	1
o-Terphenyl	65	S1-	70 - 130	07/12/24 10:47	07/12/24 21:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		5.01		mg/Kg			07/12/24 02:29	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
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)				
880-45849-1	H-1 (0-0.5')	124	75				
880-45849-1 MS	H-1 (0-0.5')	128	99				
880-45849-1 MSD	H-1 (0-0.5')	125	89				
880-45849-2	H-2 (0-0.5')	130	83				
880-45849-3	H-3 (0-0.5')	125	88				
880-45849-4	H-4 (0-0.5')	125	83				
880-45849-5	H-5 (0-0.5')	124	87				
880-45849-6	H-6(0-0.5')	136 S1+	82				
880-45849-7	H-7 (0-0.5')	125	79				
880-45849-8	H-8 (0-0.5')	134 S1+	86				
880-45849-9	H-9 (0-0.5')	129	85				
LCS 880-85487/1-A	Lab Control Sample	124	86				
LCSD 880-85487/2-A	Lab Control Sample Dup	108	94				
MB 880-85487/5-A	Method Blank	74	90				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-45775-A-12-B MS	Matrix Spike	69 S1-	97				
880-45775-A-12-C MSD	Matrix Spike Duplicate	70	96				
880-45849-1	H-1 (0-0.5')	94	83				
880-45849-2	H-2 (0-0.5')	95	81				
880-45849-3	H-3 (0-0.5')	96	81				
880-45849-4	H-4 (0-0.5')	88	78				
880-45849-5	H-5 (0-0.5')	88	77				
880-45849-6	H-6(0-0.5')	86	74				
880-45849-7	H-7 (0-0.5')	82	71				
880-45849-8	H-8 (0-0.5')	68 S1-	60 S1-				
880-45849-9	H-9 (0-0.5')	73	65 S1-				
890-6919-A-10-D MS	Matrix Spike	78	64 S1-				
890-6919-A-10-E MSD	Matrix Spike Duplicate	84	70				
890-6928-A-7-B MS	Matrix Spike	78	65 S1-				
890-6928-A-7-C MSD	Matrix Spike Duplicate	79	66 S1-				
LCS 880-85491/2-A	Lab Control Sample	123	94				
LCS 880-85546/2-A	Lab Control Sample	93	84				
LCS 880-85557/2-A	Lab Control Sample	88	75				
LCSD 880-85491/3-A	Lab Control Sample Dup	101	96				
LCSD 880-85546/3-A	Lab Control Sample Dup	94	88				
LCSD 880-85557/3-A	Lab Control Sample Dup	85	73				
MB 880-85491/1-A	Method Blank	85	86				
MB 880-85546/1-A	Method Blank	115	120				
MB 880-85557/1-A	Method Blank	101	118				
Surrogate Legend							

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Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

- 1
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- 14

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-85487/5-A

Matrix: Solid

Analysis Batch: 85291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 85487

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/24 14:49	07/11/24 17:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	07/11/24 14:49	07/11/24 17:37	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/11/24 14:49	07/11/24 17:37	1

Lab Sample ID: LCS 880-85487/1-A

Matrix: Solid

Analysis Batch: 85291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1111		mg/Kg		111	70 - 130
Toluene	0.100	0.1114		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1088		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2345		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-85487/2-A

Matrix: Solid

Analysis Batch: 85291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 85487

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1270		mg/Kg		127	70 - 130	13	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	0	35
Ethylbenzene	0.100	0.1080		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2323		mg/Kg		116	70 - 130	1	35
o-Xylene	0.100	0.1131		mg/Kg		113	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-45849-1 MS

Matrix: Solid

Analysis Batch: 85291

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

Prep Type: Total/NA

Prep Batch: 85487

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.101	0.05671	F1	mg/Kg		56	70 - 130
Toluene	<0.00199	U F1 F2	0.101	0.04931	F1	mg/Kg		49	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-1 MS
Matrix: Solid
Analysis Batch: 85291

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 85487

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1 F2	0.101	0.05103	F1	mg/Kg		51	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.202	0.1096	F1	mg/Kg		54	70 - 130
o-Xylene	<0.00199	U F1 F2	0.101	0.05423	F1	mg/Kg		54	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	128		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 880-45849-1 MSD
Matrix: Solid
Analysis Batch: 85291

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 85487

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0992	0.1030	F2	mg/Kg		104	70 - 130	58	35
Toluene	<0.00199	U F1 F2	0.0992	0.09961	F2	mg/Kg		100	70 - 130	68	35
Ethylbenzene	<0.00199	U F1 F2	0.0992	0.09775	F2	mg/Kg		99	70 - 130	63	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.198	0.2102	F2	mg/Kg		106	70 - 130	63	35
o-Xylene	<0.00199	U F1 F2	0.0992	0.1027	F2	mg/Kg		104	70 - 130	62	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	125		70 - 130								
1,4-Difluorobenzene (Surr)	89		70 - 130								

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

Lab Sample ID: MB 880-85491/1-A
Matrix: Solid
Analysis Batch: 85631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85491

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		07/11/24 15:17	07/13/24 16:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/11/24 15:17	07/13/24 16:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/11/24 15:17	07/13/24 16:53	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/11/24 15:17	07/13/24 16:53	1
o-Terphenyl	86		70 - 130				07/11/24 15:17	07/13/24 16:53	1

Lab Sample ID: LCS 880-85491/2-A
Matrix: Solid
Analysis Batch: 85631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	950.1		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	848.5		mg/Kg		85	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-85491/2-A

Matrix: Solid

Analysis Batch: 85631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85491

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-85491/3-A

Matrix: Solid

Analysis Batch: 85631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 85491

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1177	*1	mg/Kg		118	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	1031		mg/Kg		103	70 - 130	19	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-6928-A-7-B MS

Matrix: Solid

Analysis Batch: 85631

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 85491

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 *1	993	710.3		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	993	583.9	F1	mg/Kg		59	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	65	S1-	70 - 130

Lab Sample ID: 890-6928-A-7-C MSD

Matrix: Solid

Analysis Batch: 85631

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 85491

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 *1	993	722.1		mg/Kg		73	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	993	595.9	F1	mg/Kg		60	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	66	S1-	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-85546/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 85578							Prep Batch: 85546			
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		07/12/24 10:17	07/12/24 12:31	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 12:31	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 12:31	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	115		70 - 130				07/12/24 10:17	07/12/24 12:31	1	
o-Terphenyl	120		70 - 130				07/12/24 10:17	07/12/24 12:31	1	

Lab Sample ID: LCS 880-85546/2-A							Client Sample ID: Lab Control Sample			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 85578							Prep Batch: 85546			
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	916.6		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	815.9		mg/Kg		82	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
1-Chlorooctane	93		70 - 130							
o-Terphenyl	84		70 - 130							

Lab Sample ID: LCSD 880-85546/3-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 85578							Prep Batch: 85546			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10		1000	1128	*1	mg/Kg		113	70 - 130	21	20
Diesel Range Organics (Over C10-C28)		1000	972.7		mg/Kg		97	70 - 130	18	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
1-Chlorooctane	94		70 - 130							
o-Terphenyl	88		70 - 130							

Lab Sample ID: 880-45775-A-12-B MS							Client Sample ID: Matrix Spike			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 85578							Prep Batch: 85546			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	997	748.9		mg/Kg		75	70 - 130	
Diesel Range Organics (Over C10-C28)	2700	F1	997	2884	F1	mg/Kg		19	70 - 130	

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45775-A-12-B MS
Matrix: Solid
Analysis Batch: 85578

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 85546

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-45775-A-12-C MSD
Matrix: Solid
Analysis Batch: 85578

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 85546

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	997	758.5		mg/Kg		76	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	2700	F1	997	3005	F1	mg/Kg		31	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: MB 880-85557/1-A
Matrix: Solid
Analysis Batch: 85608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85557

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		07/12/24 10:46	07/12/24 14:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/24 10:46	07/12/24 14:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/24 10:46	07/12/24 14:19	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	101		70 - 130	07/12/24 10:46	07/12/24 14:19	1			
o-Terphenyl	118		70 - 130	07/12/24 10:46	07/12/24 14:19	1			

Lab Sample ID: LCS 880-85557/2-A
Matrix: Solid
Analysis Batch: 85608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	919.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	885.1		mg/Kg		89	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	75		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-85557/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 85608				Prep Batch: 85557							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	909.2		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	887.9		mg/Kg		89	70 - 130	0	20
LCSD LCSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	73		70 - 130								

Lab Sample ID: 890-6919-A-10-D MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 85608				Prep Batch: 85557							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	1010	629.4	F1	mg/Kg		62	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U F1	1010	641.7	F1	mg/Kg		60	70 - 130		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	78		70 - 130								
o-Terphenyl	64	S1-	70 - 130								

Lab Sample ID: 890-6919-A-10-E MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 85608				Prep Batch: 85557							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	1010	661.7	F1	mg/Kg		66	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.7	U F1	1010	678.8	F1	mg/Kg		63	70 - 130	6	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	70		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-85471/1-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 85484											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			07/11/24 19:45	1		

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-85471/2-A

Matrix: Solid

Analysis Batch: 85484

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-85471/3-A

Matrix: Solid

Analysis Batch: 85484

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	240.1		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-45847-A-3-C MS

Matrix: Solid

Analysis Batch: 85484

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	35.3		253	280.5		mg/Kg		97	90 - 110

Lab Sample ID: 880-45847-A-3-D MSD

Matrix: Solid

Analysis Batch: 85484

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	35.3		253	280.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-85451/1-A

Matrix: Solid

Analysis Batch: 85486

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			07/12/24 00:02	1

Lab Sample ID: LCS 880-85451/2-A

Matrix: Solid

Analysis Batch: 85486

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-85451/3-A

Matrix: Solid

Analysis Batch: 85486

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	241.1		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-45849-8 MS

Matrix: Solid

Analysis Batch: 85486

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	304	F1	249	493.5	F1	mg/Kg		76	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-45849-8 MSD					Client Sample ID: H-8 (0-0.5')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 85486												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	304	F1	249	492.5	F1	mg/Kg		76	90 - 110	0	20	

QC Association Summary

Client: Carmona Resources

Job ID: 880-45849-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 85291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-1	H-1 (0-0.5')	Total/NA	Solid	8021B	85487
880-45849-2	H-2 (0-0.5')	Total/NA	Solid	8021B	85487
880-45849-3	H-3 (0-0.5')	Total/NA	Solid	8021B	85487
880-45849-4	H-4 (0-0.5')	Total/NA	Solid	8021B	85487
880-45849-5	H-5 (0-0.5')	Total/NA	Solid	8021B	85487
880-45849-6	H-6(0-0.5')	Total/NA	Solid	8021B	85487
880-45849-7	H-7 (0-0.5')	Total/NA	Solid	8021B	85487
880-45849-8	H-8 (0-0.5')	Total/NA	Solid	8021B	85487
880-45849-9	H-9 (0-0.5')	Total/NA	Solid	8021B	85487
MB 880-85487/5-A	Method Blank	Total/NA	Solid	8021B	85487
LCS 880-85487/1-A	Lab Control Sample	Total/NA	Solid	8021B	85487
LCSD 880-85487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85487
880-45849-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	85487
880-45849-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	85487

Prep Batch: 85487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-45849-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-45849-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-45849-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-45849-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-45849-6	H-6(0-0.5')	Total/NA	Solid	5035	
880-45849-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-45849-8	H-8 (0-0.5')	Total/NA	Solid	5035	
880-45849-9	H-9 (0-0.5')	Total/NA	Solid	5035	
MB 880-85487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-85487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-85487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45849-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-45849-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 85593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45849-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45849-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45849-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45849-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45849-6	H-6(0-0.5')	Total/NA	Solid	Total BTEX	
880-45849-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45849-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45849-9	H-9 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 85491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-85491/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85491/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources

Job ID: 880-45849-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 85491 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-85491/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6928-A-7-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6928-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 85546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45849-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45849-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45849-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45849-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45849-6	H-6(0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-85546/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85546/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45775-A-12-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-45775-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 85557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45849-9	H-9 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-85557/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85557/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6919-A-10-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6919-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	85546
880-45849-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	85546
880-45849-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	85546
880-45849-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	85546
880-45849-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	85546
880-45849-6	H-6(0-0.5')	Total/NA	Solid	8015B NM	85546
MB 880-85546/1-A	Method Blank	Total/NA	Solid	8015B NM	85546
LCS 880-85546/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85546
LCSD 880-85546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85546
880-45775-A-12-B MS	Matrix Spike	Total/NA	Solid	8015B NM	85546
880-45775-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	85546

Analysis Batch: 85608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	85557
880-45849-9	H-9 (0-0.5')	Total/NA	Solid	8015B NM	85557
MB 880-85557/1-A	Method Blank	Total/NA	Solid	8015B NM	85557
LCS 880-85557/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85557
LCSD 880-85557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85557
890-6919-A-10-D MS	Matrix Spike	Total/NA	Solid	8015B NM	85557
890-6919-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	85557

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QC Association Summary

Client: Carmona Resources

Job ID: 880-45849-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 85631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	85491
MB 880-85491/1-A	Method Blank	Total/NA	Solid	8015B NM	85491
LCS 880-85491/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85491
LCSD 880-85491/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85491
890-6928-A-7-B MS	Matrix Spike	Total/NA	Solid	8015B NM	85491
890-6928-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	85491

Analysis Batch: 85755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-45849-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-45849-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-45849-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-45849-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-45849-6	H-6(0-0.5')	Total/NA	Solid	8015 NM	
880-45849-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	
880-45849-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	
880-45849-9	H-9 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 85451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-45849-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
880-45849-9	H-9 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-85451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-85451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45849-8 MS	H-8 (0-0.5')	Soluble	Solid	DI Leach	
880-45849-8 MSD	H-8 (0-0.5')	Soluble	Solid	DI Leach	

Leach Batch: 85471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-45849-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-45849-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-45849-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-45849-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-45849-6	H-6(0-0.5')	Soluble	Solid	DI Leach	
MB 880-85471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-85471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45847-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-45847-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 85484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-1	H-1 (0-0.5')	Soluble	Solid	300.0	85471
880-45849-2	H-2 (0-0.5')	Soluble	Solid	300.0	85471
880-45849-3	H-3 (0-0.5')	Soluble	Solid	300.0	85471

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 85484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-4	H-4 (0-0.5')	Soluble	Solid	300.0	85471
880-45849-5	H-5 (0-0.5')	Soluble	Solid	300.0	85471
880-45849-6	H-6(0-0.5')	Soluble	Solid	300.0	85471
MB 880-85471/1-A	Method Blank	Soluble	Solid	300.0	85471
LCS 880-85471/2-A	Lab Control Sample	Soluble	Solid	300.0	85471
LCSD 880-85471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85471
880-45847-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	85471
880-45847-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	85471

Analysis Batch: 85486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45849-7	H-7 (0-0.5')	Soluble	Solid	300.0	85451
880-45849-8	H-8 (0-0.5')	Soluble	Solid	300.0	85451
880-45849-9	H-9 (0-0.5')	Soluble	Solid	300.0	85451
MB 880-85451/1-A	Method Blank	Soluble	Solid	300.0	85451
LCS 880-85451/2-A	Lab Control Sample	Soluble	Solid	300.0	85451
LCSD 880-85451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85451
880-45849-8 MS	H-8 (0-0.5')	Soluble	Solid	300.0	85451
880-45849-8 MSD	H-8 (0-0.5')	Soluble	Solid	300.0	85451

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 18:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			85755	07/12/24 19:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 19:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	85484	07/11/24 22:49	CH	EET MID

Client Sample ID: H-2 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			85755	07/12/24 19:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 19:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	85484	07/11/24 22:56	CH	EET MID

Client Sample ID: H-3 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 18:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			85755	07/12/24 19:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 19:47	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	85484	07/11/24 23:03	CH	EET MID

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 19:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 19:24	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-4
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			85755	07/12/24 20:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 20:04	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	85484	07/11/24 23:11	CH	EET MID

Client Sample ID: H-5 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 19:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			85755	07/12/24 20:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 20:21	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	85484	07/11/24 23:18	CH	EET MID

Client Sample ID: H-6(0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-6
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			4.95 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 20:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			85755	07/12/24 20:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 20:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	85484	07/11/24 23:25	CH	EET MID

Client Sample ID: H-7 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 20:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			85755	07/13/24 20:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85491	07/11/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85631	07/13/24 20:48	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Client Sample ID: H-7 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-7
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	85451	07/11/24 13:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85486	07/12/24 02:00	CH	EET MID

Client Sample ID: H-8 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 21:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 21:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			85755	07/12/24 20:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 20:53	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	85451	07/11/24 13:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85486	07/12/24 02:07	CH	EET MID

Client Sample ID: H-9 (0-0.5')
Date Collected: 07/10/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45849-9
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			5.04 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/11/24 21:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85593	07/11/24 21:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			85755	07/12/24 21:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 21:08	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	85451	07/11/24 13:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85486	07/12/24 02:29	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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
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- 13
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Method Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-45849-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45849-1	H-1 (0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15
880-45849-2	H-2 (0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15
880-45849-3	H-3 (0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15
880-45849-4	H-4 (0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15
880-45849-5	H-5 (0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15
880-45849-6	H-6(0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15
880-45849-7	H-7 (0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15
880-45849-8	H-8 (0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15
880-45849-9	H-9 (0-0.5')	Solid	07/10/24 00:00	07/11/24 12:15



Chain of Custody



880-45849 Chain of Custody

Page 1 of 1

Work Order Comments

Program: ☐ ST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

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

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: **Conner Moehring**

Company Name: **Carmona Resources**

Address: **310 W Wall St Ste 500**

City, State ZIP: **Midland, TX 79701**

Phone: **432-813-6823**

Bill to: (if different) **Carmona Resources**

Company Name: **Carmona Resources**

Address: **310 W Wall St Ste 500**

City, State ZIP: **Midland, TX 79701**

Email: **mcarmona@carmonaresources.com**

Project Name: Copperhead Fee 31 E CTB (05.27.24)		Turn Around		Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number: 2415		☐ Routine ☒ Rush		72 HR													
Project Location: Eddy County, New Mexico		Due Date: FV															
Sampler's Name: FV																	
PO #:																	
SAMPLE RECEIPT		Temp Blank: Yes ☒ No ☐		Yes ☒ No ☐		Wet Ice: Yes ☒ No ☐											
Received Intact:		Yes ☒ No ☐		Thermometer ID: 184													
Cooler Custody Seals:		Yes ☒ No ☐		Correction Factor: -1.7													
Sample Custody Seals:		Yes ☒ No ☐		Temperature Reading: -1.7													
Total Containers:				Corrected Temperature: -1.8													
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
H-1 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		
H-2 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		
H-3 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		
H-4 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		
H-5 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		
H-6 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		
H-7 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		
H-8 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		
H-9 (0-0.5')	7/10/2024		X		G	1	X	X	X	X	X	X	X	X	X		

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	7/11/24	<i>[Signature]</i>	7/11/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-45849-1

SDG Number: Eddy County, New Mexico

Login Number: 45849

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 8/16/2024 4:34:19 PM

JOB DESCRIPTION

Copperhead Fee 31 E CTB (05.27.24)
Eddy County, New Mexico

JOB NUMBER

880-47293-1

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
8/16/2024 4:34:19 PM

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

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Laboratory Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	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.

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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1

Job ID: 880-47293-1

Eurofins Midland

Job Narrative 880-47293-1

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

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

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

Receipt

The samples were received on 8/15/2024 4:42 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 -0.7°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-4 (1.5') (880-47293-22), (880-47298-A-1-A), (880-47298-A-1-B MS) and (880-47298-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-88589 and analytical batch 880-88571 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-88590 and analytical batch 880-88593 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-88591/2-A) and (LCSD 880-88591/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-88591 and analytical batch 880-88594 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.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-47293-1

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 20:42	08/16/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 20:42	08/16/24 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/15/24 20:42	08/16/24 11:56	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/15/24 20:42	08/16/24 11:56	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			08/16/24 11:56	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			08/16/24 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 12:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 12:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/16/24 09:30	08/16/24 12:19	1
o-Terphenyl	73		70 - 130	08/16/24 09:30	08/16/24 12:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.5		5.05		mg/Kg			08/16/24 12:47	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-47293-2

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 12:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 12:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 12:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 12:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 12:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/15/24 20:42	08/16/24 12:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/15/24 20:42	08/16/24 12:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-47293-2

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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			08/16/24 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/16/24 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/16/24 09:30	08/16/24 13:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/16/24 09:30	08/16/24 13:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/16/24 09:30	08/16/24 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/16/24 09:30	08/16/24 13:12	1
o-Terphenyl	75		70 - 130				08/16/24 09:30	08/16/24 13:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.3		5.03		mg/Kg			08/16/24 12:53	1

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-47293-3

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 12:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 12:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 12:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 20:42	08/16/24 12:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 12:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 20:42	08/16/24 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/15/24 20:42	08/16/24 12:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/15/24 20:42	08/16/24 12:37	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			08/16/24 12:37	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			08/16/24 13:29	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		08/16/24 09:30	08/16/24 13:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/16/24 09:30	08/16/24 13:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-47293-3

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 09:30	08/16/24 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				08/16/24 09:30	08/16/24 13:29	1
o-Terphenyl	74		70 - 130				08/16/24 09:30	08/16/24 13:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.7		4.96		mg/Kg			08/16/24 12:59	1

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-47293-4

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 12:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:42	08/16/24 12:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:42	08/16/24 12:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/15/24 20:42	08/16/24 12:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:42	08/16/24 12:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/15/24 20:42	08/16/24 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/15/24 20:42	08/16/24 12:57	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/15/24 20:42	08/16/24 12:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/16/24 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/16/24 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 13:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 13:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/16/24 09:30	08/16/24 13:47	1
o-Terphenyl	77		70 - 130				08/16/24 09:30	08/16/24 13:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.5		4.97		mg/Kg			08/16/24 13:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-5 (1.5')

Lab Sample ID: 880-47293-5

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 13:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 13:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 13:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 13:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 13:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/15/24 20:42	08/16/24 13:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/15/24 20:42	08/16/24 13:18	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			08/16/24 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/16/24 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/16/24 09:30	08/16/24 14:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/16/24 09:30	08/16/24 14:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/16/24 09:30	08/16/24 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/16/24 09:30	08/16/24 14:05	1
o-Terphenyl	76		70 - 130	08/16/24 09:30	08/16/24 14:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.6		4.95		mg/Kg			08/16/24 13:23	1

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-47293-6

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 13:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 13:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 13:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 13:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 13:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/15/24 20:42	08/16/24 13:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/15/24 20:42	08/16/24 13:39	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-47293-6

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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			08/16/24 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/16/24 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/16/24 09:30	08/16/24 14:22	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/16/24 09:30	08/16/24 14:22	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/16/24 09:30	08/16/24 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/16/24 09:30	08/16/24 14:22	1
o-Terphenyl	76		70 - 130				08/16/24 09:30	08/16/24 14:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.6		4.96		mg/Kg			08/16/24 13:29	1

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-47293-7

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 13:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 13:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 13:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 20:42	08/16/24 13:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 13:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 20:42	08/16/24 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/15/24 20:42	08/16/24 13:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/15/24 20:42	08/16/24 13:59	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			08/16/24 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/16/24 14:40	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	<50.2	U	50.2		mg/Kg		08/16/24 09:30	08/16/24 14:40	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/16/24 09:30	08/16/24 14:40	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-47293-7

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/16/24 09:30	08/16/24 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/16/24 09:30	08/16/24 14:40	1
o-Terphenyl	75		70 - 130				08/16/24 09:30	08/16/24 14:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.7		5.02		mg/Kg			08/16/24 13:47	1

Client Sample ID: CS-8 (1.5')

Lab Sample ID: 880-47293-8

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 14:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 14:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 20:42	08/16/24 14:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 14:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 20:42	08/16/24 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/15/24 20:42	08/16/24 14:20	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/15/24 20:42	08/16/24 14:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/16/24 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/16/24 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/16/24 09:30	08/16/24 14:58	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/16/24 09:30	08/16/24 14:58	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/16/24 09:30	08/16/24 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/16/24 09:30	08/16/24 14:58	1
o-Terphenyl	77		70 - 130				08/16/24 09:30	08/16/24 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.9		5.01		mg/Kg			08/16/24 13:53	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-9 (1.5')

Lab Sample ID: 880-47293-9

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 14:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 14:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 14:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 14:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 14:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/15/24 20:42	08/16/24 14:40	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/15/24 20:42	08/16/24 14:40	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			08/16/24 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/16/24 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/16/24 09:30	08/16/24 15:15	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/16/24 09:30	08/16/24 15:15	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/16/24 09:30	08/16/24 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/16/24 09:30	08/16/24 15:15	1
o-Terphenyl	73		70 - 130	08/16/24 09:30	08/16/24 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.9		5.01		mg/Kg			08/16/24 13:59	1

Client Sample ID: CS-10 (1.5')

Lab Sample ID: 880-47293-10

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 15:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 15:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 15:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 15:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:42	08/16/24 15:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 20:42	08/16/24 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/15/24 20:42	08/16/24 15:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/15/24 20:42	08/16/24 15:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-10 (1.5')

Lab Sample ID: 880-47293-10

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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			08/16/24 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/16/24 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/16/24 09:30	08/16/24 15:33	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/16/24 09:30	08/16/24 15:33	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/16/24 09:30	08/16/24 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				08/16/24 09:30	08/16/24 15:33	1
o-Terphenyl	71		70 - 130				08/16/24 09:30	08/16/24 15:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		5.03		mg/Kg			08/16/24 14:05	1

Client Sample ID: CS-11 (1.5')

Lab Sample ID: 880-47293-11

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 11:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 11:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 11:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/16/24 08:19	08/16/24 11:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 11:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/16/24 08:19	08/16/24 11:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				08/16/24 08:19	08/16/24 11:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/16/24 08:19	08/16/24 11:42	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			08/16/24 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/16/24 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U **	50.4		mg/Kg		08/16/24 09:34	08/16/24 12:19	1
Diesel Range Organics (Over C10-C28)	<50.4	U **	50.4		mg/Kg		08/16/24 09:34	08/16/24 12:19	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-11 (1.5')

Lab Sample ID: 880-47293-11

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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)	<50.4	U	50.4		mg/Kg		08/16/24 09:34	08/16/24 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/16/24 09:34	08/16/24 12:19	1
o-Terphenyl	88		70 - 130				08/16/24 09:34	08/16/24 12:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.3		5.04		mg/Kg			08/16/24 14:11	1

Client Sample ID: CS-12 (1.5')

Lab Sample ID: 880-47293-12

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 12:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 12:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 12:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/16/24 08:19	08/16/24 12:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 12:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/16/24 08:19	08/16/24 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				08/16/24 08:19	08/16/24 12:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/16/24 08:19	08/16/24 12:02	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			08/16/24 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/16/24 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		08/16/24 09:34	08/16/24 13:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		08/16/24 09:34	08/16/24 13:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/16/24 09:34	08/16/24 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/16/24 09:34	08/16/24 13:12	1
o-Terphenyl	86		70 - 130				08/16/24 09:34	08/16/24 13:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		4.99		mg/Kg			08/16/24 14:18	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-13 (1.5')

Lab Sample ID: 880-47293-13

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 12:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 12:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 12:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/16/24 08:19	08/16/24 12:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 12:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/16/24 08:19	08/16/24 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/16/24 08:19	08/16/24 12:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/16/24 08:19	08/16/24 12:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/16/24 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/16/24 13:29	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	<49.6	U **	49.6		mg/Kg		08/16/24 09:34	08/16/24 13:29	1
Diesel Range Organics (Over C10-C28)	<49.6	U **	49.6		mg/Kg		08/16/24 09:34	08/16/24 13:29	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/16/24 09:34	08/16/24 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/16/24 09:34	08/16/24 13:29	1
o-Terphenyl	82		70 - 130	08/16/24 09:34	08/16/24 13:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.9		5.02		mg/Kg			08/16/24 14:24	1

Client Sample ID: CS-14 (1.5')

Lab Sample ID: 880-47293-14

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 12:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/16/24 08:19	08/16/24 12:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/16/24 08:19	08/16/24 12:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/16/24 08:19	08/16/24 12:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/16/24 08:19	08/16/24 12:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/16/24 08:19	08/16/24 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/16/24 08:19	08/16/24 12:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/16/24 08:19	08/16/24 12:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-14 (1.5')

Lab Sample ID: 880-47293-14

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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			08/16/24 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/16/24 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		08/16/24 09:34	08/16/24 13:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		08/16/24 09:34	08/16/24 13:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/16/24 09:34	08/16/24 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/16/24 09:34	08/16/24 13:47	1
o-Terphenyl	89		70 - 130				08/16/24 09:34	08/16/24 13:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.2		4.98		mg/Kg			08/16/24 11:51	1

Client Sample ID: CS-15 (1.5')

Lab Sample ID: 880-47293-15

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 13:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/16/24 08:19	08/16/24 13:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/16/24 08:19	08/16/24 13:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/16/24 08:19	08/16/24 13:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/16/24 08:19	08/16/24 13:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/16/24 08:19	08/16/24 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/16/24 08:19	08/16/24 13:04	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/16/24 08:19	08/16/24 13:04	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			08/16/24 13:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/16/24 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U **	50.3		mg/Kg		08/16/24 09:34	08/16/24 14:05	1
Diesel Range Organics (Over C10-C28)	<50.3	U **	50.3		mg/Kg		08/16/24 09:34	08/16/24 14:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-15 (1.5')

Lab Sample ID: 880-47293-15

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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)	<50.3	U	50.3		mg/Kg		08/16/24 09:34	08/16/24 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/16/24 09:34	08/16/24 14:05	1
o-Terphenyl	87		70 - 130				08/16/24 09:34	08/16/24 14:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.3		5.02		mg/Kg			08/16/24 12:13	1

Client Sample ID: CS-16 (1.5')

Lab Sample ID: 880-47293-16

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 13:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 13:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 13:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/16/24 08:19	08/16/24 13:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 13:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/16/24 08:19	08/16/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				08/16/24 08:19	08/16/24 13:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/16/24 08:19	08/16/24 13:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/16/24 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/16/24 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U **	50.1		mg/Kg		08/16/24 09:34	08/16/24 14:22	1
Diesel Range Organics (Over C10-C28)	<50.1	U **	50.1		mg/Kg		08/16/24 09:34	08/16/24 14:22	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/16/24 09:34	08/16/24 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/16/24 09:34	08/16/24 14:22	1
o-Terphenyl	89		70 - 130				08/16/24 09:34	08/16/24 14:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.2		4.97		mg/Kg			08/16/24 12:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-17 (1.5')

Lab Sample ID: 880-47293-17

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 13:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/16/24 08:19	08/16/24 13:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/16/24 08:19	08/16/24 13:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/16/24 08:19	08/16/24 13:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/16/24 08:19	08/16/24 13:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/16/24 08:19	08/16/24 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				08/16/24 08:19	08/16/24 13:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/16/24 08:19	08/16/24 13:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/16/24 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/16/24 14:40	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	<50.4	U **	50.4		mg/Kg		08/16/24 09:34	08/16/24 14:40	1
Diesel Range Organics (Over C10-C28)	<50.4	U **	50.4		mg/Kg		08/16/24 09:34	08/16/24 14:40	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/16/24 09:34	08/16/24 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/16/24 09:34	08/16/24 14:40	1
o-Terphenyl	84		70 - 130				08/16/24 09:34	08/16/24 14:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		4.95		mg/Kg			08/16/24 12:27	1

Client Sample ID: CS-18 (1.5')

Lab Sample ID: 880-47293-18

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 14:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 14:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 14:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/16/24 08:19	08/16/24 14:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 14:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/16/24 08:19	08/16/24 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				08/16/24 08:19	08/16/24 14:06	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/16/24 08:19	08/16/24 14:06	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-18 (1.5')

Lab Sample ID: 880-47293-18

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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			08/16/24 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/16/24 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U **	50.5		mg/Kg		08/16/24 09:34	08/16/24 14:58	1
Diesel Range Organics (Over C10-C28)	<50.5	U **	50.5		mg/Kg		08/16/24 09:34	08/16/24 14:58	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/16/24 09:34	08/16/24 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/16/24 09:34	08/16/24 14:58	1
o-Terphenyl	83		70 - 130				08/16/24 09:34	08/16/24 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.9		4.95		mg/Kg			08/16/24 12:35	1

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-47293-19

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 14:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/16/24 08:19	08/16/24 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 14:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/16/24 08:19	08/16/24 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				08/16/24 08:19	08/16/24 14:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/16/24 08:19	08/16/24 14:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/16/24 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/16/24 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		08/16/24 09:34	08/16/24 15:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		08/16/24 09:34	08/16/24 15:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-47293-19

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/16/24 09:34	08/16/24 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/16/24 09:34	08/16/24 15:15	1
o-Terphenyl	85		70 - 130				08/16/24 09:34	08/16/24 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.1		4.99		mg/Kg			08/16/24 12:57	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-47293-20

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 14:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 14:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 14:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/24 08:19	08/16/24 14:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 14:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/24 08:19	08/16/24 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				08/16/24 08:19	08/16/24 14:47	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/16/24 08:19	08/16/24 14:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/16/24 14:47	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			08/16/24 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9		mg/Kg		08/16/24 09:34	08/16/24 15:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		08/16/24 09:34	08/16/24 15:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/16/24 09:34	08/16/24 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/16/24 09:34	08/16/24 15:33	1
o-Terphenyl	88		70 - 130				08/16/24 09:34	08/16/24 15:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.3		5.00		mg/Kg			08/16/24 13:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-47293-21

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 11:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 11:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 11:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:46	08/16/24 11:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 11:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 20:46	08/16/24 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/15/24 20:46	08/16/24 11:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/15/24 20:46	08/16/24 11:30	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			08/16/24 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/16/24 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/16/24 09:26	08/16/24 11:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/16/24 09:26	08/16/24 11:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/16/24 09:26	08/16/24 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	08/16/24 09:26	08/16/24 11:59	1
o-Terphenyl	76		70 - 130	08/16/24 09:26	08/16/24 11:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.5		4.98		mg/Kg			08/16/24 13:11	1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-47293-22

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 11:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 11:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 11:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:46	08/16/24 11:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 11:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 20:46	08/16/24 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/15/24 20:46	08/16/24 11:51	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/15/24 20:46	08/16/24 11:51	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-47293-22

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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			08/16/24 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/16/24 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/16/24 09:26	08/16/24 12:19	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/16/24 09:26	08/16/24 12:19	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/16/24 09:26	08/16/24 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				08/16/24 09:26	08/16/24 12:19	1
o-Terphenyl	69	S1-	70 - 130				08/16/24 09:26	08/16/24 12:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.4		5.02		mg/Kg			08/16/24 13:18	1

Client Sample ID: SW-5 (1.5')

Lab Sample ID: 880-47293-23

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 12:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 20:46	08/16/24 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 12:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 20:46	08/16/24 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/15/24 20:46	08/16/24 12:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/15/24 20:46	08/16/24 12:11	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			08/16/24 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/16/24 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/16/24 09:26	08/16/24 12:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/16/24 09:26	08/16/24 12:39	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (1.5')

Lab Sample ID: 880-47293-23

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 09:26	08/16/24 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				08/16/24 09:26	08/16/24 12:39	1
o-Terphenyl	80		70 - 130				08/16/24 09:26	08/16/24 12:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.01		mg/Kg			08/16/24 13:26	1

Client Sample ID: SW-6 (1.5')

Lab Sample ID: 880-47293-24

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 12:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:46	08/16/24 12:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:46	08/16/24 12:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/15/24 20:46	08/16/24 12:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:46	08/16/24 12:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/15/24 20:46	08/16/24 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/15/24 20:46	08/16/24 12:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/15/24 20:46	08/16/24 12:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/16/24 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/16/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/16/24 09:26	08/16/24 12:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/16/24 09:26	08/16/24 12:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/16/24 09:26	08/16/24 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				08/16/24 09:26	08/16/24 12:59	1
o-Terphenyl	83		70 - 130				08/16/24 09:26	08/16/24 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.2		4.99		mg/Kg			08/16/24 13:33	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-7 (1.5')

Lab Sample ID: 880-47293-25

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 12:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/15/24 20:46	08/16/24 12:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/15/24 20:46	08/16/24 12:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/15/24 20:46	08/16/24 12:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/15/24 20:46	08/16/24 12:52	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/15/24 20:46	08/16/24 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/15/24 20:46	08/16/24 12:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/15/24 20:46	08/16/24 12:52	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			08/16/24 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/16/24 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/16/24 09:26	08/16/24 13:20	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/16/24 09:26	08/16/24 13:20	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/16/24 09:26	08/16/24 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/16/24 09:26	08/16/24 13:20	1
o-Terphenyl	82		70 - 130	08/16/24 09:26	08/16/24 13:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.4		5.05		mg/Kg			08/16/24 13:55	1

Client Sample ID: SW-8 (1.5')

Lab Sample ID: 880-47293-26

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 13:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 20:46	08/16/24 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 13:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 20:46	08/16/24 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/15/24 20:46	08/16/24 13:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/15/24 20:46	08/16/24 13:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-8 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-26
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/16/24 13:13	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.2	U	50.2		mg/Kg			08/16/24 13:40	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	<50.2	U	50.2		mg/Kg		08/16/24 09:26	08/16/24 13:40	1	
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/16/24 09:26	08/16/24 13:40	1	
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/16/24 09:26	08/16/24 13:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	82		70 - 130				08/16/24 09:26	08/16/24 13:40	1	
o-Terphenyl	87		70 - 130				08/16/24 09:26	08/16/24 13:40	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	73.5		5.04		mg/Kg			08/16/24 14:02	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
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)
880-47293-1	CS-1 (1.5')	107	96
880-47293-1 MS	CS-1 (1.5')	105	99
880-47293-1 MSD	CS-1 (1.5')	107	98
880-47293-2	CS-2 (1.5')	112	96
880-47293-3	CS-3 (1.5')	111	96
880-47293-4	CS-4 (1.5')	114	95
880-47293-5	CS-5 (1.5')	107	95
880-47293-6	CS-6 (1.5')	109	96
880-47293-7	CS-7 (1.5')	109	96
880-47293-8	CS-8 (1.5')	107	95
880-47293-9	CS-9 (1.5')	111	96
880-47293-10	CS-10 (1.5')	108	95
880-47293-11	CS-11 (1.5')	127	96
880-47293-11 MS	CS-11 (1.5')	122	92
880-47293-11 MSD	CS-11 (1.5')	118	92
880-47293-12	CS-12 (1.5')	128	96
880-47293-13	CS-13 (1.5')	129	95
880-47293-14	CS-14 (1.5')	129	95
880-47293-15	CS-15 (1.5')	124	94
880-47293-16	CS-16 (1.5')	128	95
880-47293-17	CS-17 (1.5')	130	95
880-47293-18	CS-18 (1.5')	130	95
880-47293-19	SW-1 (1.5')	129	95
880-47293-20	SW-2 (1.5')	127	95
880-47293-21	SW-3 (1.5')	113	100
880-47293-21 MS	SW-3 (1.5')	98	103
880-47293-21 MSD	SW-3 (1.5')	100	105
880-47293-22	SW-4 (1.5')	109	96
880-47293-23	SW-5 (1.5')	112	97
880-47293-24	SW-6 (1.5')	110	99
880-47293-25	SW-7 (1.5')	117	98
880-47293-26	SW-8 (1.5')	111	101
LCS 880-88567/1-A	Lab Control Sample	107	100
LCS 880-88568/1-A	Lab Control Sample	98	105
LCS 880-88583/1-A	Lab Control Sample	123	93
LCSD 880-88567/2-A	Lab Control Sample Dup	102	99
LCSD 880-88568/2-A	Lab Control Sample Dup	98	107
LCSD 880-88583/2-A	Lab Control Sample Dup	118	92
MB 880-88567/5-A	Method Blank	109	90
MB 880-88568/5-A	Method Blank	102	91
MB 880-88583/5-A	Method Blank	119	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-47293-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-47293-1	CS-1 (1.5')	80	73
880-47293-1 MS	CS-1 (1.5')	81	79
880-47293-1 MSD	CS-1 (1.5')	80	80
880-47293-2	CS-2 (1.5')	81	75
880-47293-3	CS-3 (1.5')	79	74
880-47293-4	CS-4 (1.5')	85	77
880-47293-5	CS-5 (1.5')	84	76
880-47293-6	CS-6 (1.5')	83	76
880-47293-7	CS-7 (1.5')	83	75
880-47293-8	CS-8 (1.5')	86	77
880-47293-9	CS-9 (1.5')	81	73
880-47293-10	CS-10 (1.5')	79	71
880-47293-11	CS-11 (1.5')	90	88
880-47293-11 MS	CS-11 (1.5')	90	95
880-47293-11 MSD	CS-11 (1.5')	93	97
880-47293-12	CS-12 (1.5')	89	86
880-47293-13	CS-13 (1.5')	84	82
880-47293-14	CS-14 (1.5')	90	89
880-47293-15	CS-15 (1.5')	90	87
880-47293-16	CS-16 (1.5')	92	89
880-47293-17	CS-17 (1.5')	87	84
880-47293-18	CS-18 (1.5')	86	83
880-47293-19	SW-1 (1.5')	87	85
880-47293-20	SW-2 (1.5')	90	88
880-47293-21	SW-3 (1.5')	71	76
880-47293-22	SW-4 (1.5')	67 S1-	69 S1-
880-47293-23	SW-5 (1.5')	77	80
880-47293-24	SW-6 (1.5')	79	83
880-47293-25	SW-7 (1.5')	79	82
880-47293-26	SW-8 (1.5')	82	87
880-47298-A-1-B MS	Matrix Spike	69 S1-	67 S1-
880-47298-A-1-C MSD	Matrix Spike Duplicate	68 S1-	64 S1-
LCS 880-88589/2-A	Lab Control Sample	119	127
LCS 880-88590/2-A	Lab Control Sample	120	124
LCS 880-88591/2-A	Lab Control Sample	136 S1+	152 S1+
LCSD 880-88589/3-A	Lab Control Sample Dup	115	121
LCSD 880-88590/3-A	Lab Control Sample Dup	119	123
LCSD 880-88591/3-A	Lab Control Sample Dup	136 S1+	151 S1+
MB 880-88589/1-A	Method Blank	97	109
MB 880-88590/1-A	Method Blank	176 S1+	171 S1+
MB 880-88591/1-A	Method Blank	115	121

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88567/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88581							Prep Batch: 88567		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/15/24 20:42	08/16/24 11:34	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/15/24 20:42	08/16/24 11:34	1

Lab Sample ID: LCS 880-88567/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88581							Prep Batch: 88567		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1170		mg/Kg		117	70 - 130	
Toluene		0.100	0.1056		mg/Kg		106	70 - 130	
Ethylbenzene		0.100	0.1089		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene		0.200	0.2297		mg/Kg		115	70 - 130	
o-Xylene		0.100	0.1127		mg/Kg		113	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: LCSD 880-88567/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88581							Prep Batch: 88567			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1242		mg/Kg		124	70 - 130	6	35
Toluene		0.100	0.1117		mg/Kg		112	70 - 130	6	35
Ethylbenzene		0.100	0.1145		mg/Kg		115	70 - 130	5	35
m-Xylene & p-Xylene		0.200	0.2416		mg/Kg		121	70 - 130	5	35
o-Xylene		0.100	0.1185		mg/Kg		118	70 - 130	5	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	102		70 - 130							
1,4-Difluorobenzene (Surr)	99		70 - 130							

Lab Sample ID: 880-47293-1 MS							Client Sample ID: CS-1 (1.5')		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88581							Prep Batch: 88567		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1167		mg/Kg		117	70 - 130
Toluene	<0.00200	U	0.100	0.1040		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47293-1 MS
Matrix: Solid
Analysis Batch: 88581

Client Sample ID: CS-1 (1.5')
Prep Type: Total/NA
Prep Batch: 88567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1057		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2220		mg/Kg		111	70 - 130
o-Xylene	<0.00200	U	0.100	0.1090		mg/Kg		109	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	105		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 880-47293-1 MSD
Matrix: Solid
Analysis Batch: 88581

Client Sample ID: CS-1 (1.5')
Prep Type: Total/NA
Prep Batch: 88567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1089		mg/Kg		109	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.09748		mg/Kg		97	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.09917		mg/Kg		99	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2072		mg/Kg		104	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.1015		mg/Kg		102	70 - 130	7	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	107		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

Lab Sample ID: MB 880-88568/5-A
Matrix: Solid
Analysis Batch: 88579

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88568

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/15/24 20:46	08/16/24 11:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/15/24 20:46	08/16/24 11:08	1

Lab Sample ID: LCS 880-88568/1-A
Matrix: Solid
Analysis Batch: 88579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1115		mg/Kg		112	70 - 130
Toluene	0.100	0.1039		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2134		mg/Kg		107	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-88568/1-A

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-88568/2-A

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88568

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1156		mg/Kg		116	70 - 130	4	35
Toluene	0.100	0.1069		mg/Kg		107	70 - 130	3	35
Ethylbenzene	0.100	0.1085		mg/Kg		108	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2184		mg/Kg		109	70 - 130	2	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-47293-21 MS

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: SW-3 (1.5')

Prep Type: Total/NA

Prep Batch: 88568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	<0.00201	U	0.100	0.09422		mg/Kg		94	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09378		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1874		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.100	0.09421		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-47293-21 MSD

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: SW-3 (1.5')

Prep Type: Total/NA

Prep Batch: 88568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.1050		mg/Kg		105	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.09587		mg/Kg		96	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.100	0.09567		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1909		mg/Kg		95	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.09607		mg/Kg		96	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47293-21 MSD

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: SW-3 (1.5')

Prep Type: Total/NA

Prep Batch: 88568

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-88583/5-A

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88583

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/16/24 08:19	08/16/24 11:20	1	
1,4-Difluorobenzene (Surr)	90		70 - 130				08/16/24 08:19	08/16/24 11:20	1	

Lab Sample ID: LCS 880-88583/1-A

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88583

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1165		mg/Kg		116	70 - 130			
Toluene	0.100	0.1193		mg/Kg		119	70 - 130			
Ethylbenzene	0.100	0.1195		mg/Kg		119	70 - 130			
m-Xylene & p-Xylene	0.200	0.2449		mg/Kg		122	70 - 130			
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130			

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-88583/2-A

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88583

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	6	35	
Toluene	0.100	0.1124		mg/Kg		112	70 - 130	6	35	
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	6	35	
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130	6	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-88583/2-A

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88583

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

Lab Sample ID: 880-47293-11 MS

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: CS-11 (1.5')

Prep Type: Total/NA

Prep Batch: 88583

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.100	0.1172		mg/Kg		117	70 - 130
Toluene	<0.00201	U	0.100	0.1205		mg/Kg		121	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.1216		mg/Kg		122	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2470		mg/Kg		124	70 - 130
o-Xylene	<0.00201	U	0.100	0.1221		mg/Kg		122	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-47293-11 MSD

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: CS-11 (1.5')

Prep Type: Total/NA

Prep Batch: 88583

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.1163		mg/Kg		116	70 - 130	1	35
Toluene	<0.00201	U	0.100	0.1192		mg/Kg		119	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.100	0.1199		mg/Kg		120	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2431		mg/Kg		122	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.1202		mg/Kg		120	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-88589/1-A

Matrix: Solid

Analysis Batch: 88571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88589

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/24 08:00	08/16/24 08:29	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/24 08:00	08/16/24 08:29	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/24 08:00	08/16/24 08:29	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	97		70 - 130	08/16/24 08:00	08/16/24 08:29	1				
o-Terphenyl	109		70 - 130	08/16/24 08:00	08/16/24 08:29	1				

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-88589/2-A

Matrix: Solid

Analysis Batch: 88571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	997.7		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	967.6		mg/Kg		97	70 - 130
	LCS %Recovery	LCS Qualifier	Limits				
Surrogate							
1-Chlorooctane	119		70 - 130				
o-Terphenyl	127		70 - 130				

Lab Sample ID: LCSD 880-88589/3-A

Matrix: Solid

Analysis Batch: 88571

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	964.1		mg/Kg		96	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	955.2		mg/Kg		96	70 - 130	1	20
	LCSD %Recovery	LCSD Qualifier	Limits						
Surrogate									
1-Chlorooctane	115		70 - 130						
o-Terphenyl	121		70 - 130						

Lab Sample ID: 880-47298-A-1-B MS

Matrix: Solid

Analysis Batch: 88571

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 88589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	990.9		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	470.7	F1	mg/Kg		47	70 - 130
	MS %Recovery	MS Qualifier	Limits						
Surrogate									
1-Chlorooctane	69	S1-	70 - 130						
o-Terphenyl	67	S1-	70 - 130						

Lab Sample ID: 880-47298-A-1-C MSD

Matrix: Solid

Analysis Batch: 88571

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 88589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1003		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	450.1	F1	mg/Kg		45	70 - 130	4	20
	MSD %Recovery	MSD Qualifier	Limits								
Surrogate											
1-Chlorooctane	68	S1-	70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47298-A-1-C MSD

Matrix: Solid

Analysis Batch: 88571

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 88589

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	64	S1-	70 - 130

Lab Sample ID: MB 880-88590/1-A

Matrix: Solid

Analysis Batch: 88593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88590

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 09:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 09:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/24 09:30	08/16/24 09:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130				08/16/24 09:30	08/16/24 09:47	1
<i>o</i> -Terphenyl	171	S1+	70 - 130				08/16/24 09:30	08/16/24 09:47	1

Lab Sample ID: LCS 880-88590/2-A

Matrix: Solid

Analysis Batch: 88593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1227		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1124		mg/Kg		112	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	120		70 - 130				
<i>o</i> -Terphenyl	124		70 - 130				

Lab Sample ID: LCSD 880-88590/3-A

Matrix: Solid

Analysis Batch: 88593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88590

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1242		mg/Kg		124	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1154		mg/Kg		115	70 - 130	3	20
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	119		70 - 130						
<i>o</i> -Terphenyl	123		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47293-1 MS

Matrix: Solid

Analysis Batch: 88593

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 88590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	911.1		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	833.2		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	81		70 - 130						
o-Terphenyl	79		70 - 130						

Lab Sample ID: 880-47293-1 MSD

Matrix: Solid

Analysis Batch: 88593

Client Sample ID: CS-1 (1.5')

Prep Type: Total/NA

Prep Batch: 88590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	909.8		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	858.1		mg/Kg		86	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
o-Terphenyl	80		70 - 130								

Lab Sample ID: MB 880-88591/1-A

Matrix: Solid

Analysis Batch: 88594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88591

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		08/16/24 09:34	08/16/24 09:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/24 09:34	08/16/24 09:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/24 09:34	08/16/24 09:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/16/24 09:34	08/16/24 09:47	1
o-Terphenyl	121		70 - 130				08/16/24 09:34	08/16/24 09:47	1

Lab Sample ID: LCS 880-88591/2-A

Matrix: Solid

Analysis Batch: 88594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1311	*+	mg/Kg		131	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1381	*+	mg/Kg		138	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-88591/2-A
Matrix: Solid
Analysis Batch: 88594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88591

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	152	S1+	70 - 130

Lab Sample ID: LCSD 880-88591/3-A
Matrix: Solid
Analysis Batch: 88594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88591

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1301		mg/Kg		130	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1348	*+	mg/Kg		135	70 - 130	2	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	136	S1+									
o-Terphenyl	151	S1+									

Lab Sample ID: 880-47293-11 MS
Matrix: Solid
Analysis Batch: 88594

Client Sample ID: CS-11 (1.5')
Prep Type: Total/NA
Prep Batch: 88591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.4	U **	1010	951.6		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.4	U **	1010	978.5		mg/Kg		97	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	90										
o-Terphenyl	95										

Lab Sample ID: 880-47293-11 MSD
Matrix: Solid
Analysis Batch: 88594

Client Sample ID: CS-11 (1.5')
Prep Type: Total/NA
Prep Batch: 88591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.4	U **	1010	963.0		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.4	U **	1010	991.6		mg/Kg		98	70 - 130	1	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	93										
o-Terphenyl	97										

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88563/1-A

Matrix: Solid

Analysis Batch: 88597

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			08/16/24 11:22	1

Lab Sample ID: LCS 880-88563/2-A

Matrix: Solid

Analysis Batch: 88597

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.2		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-88563/3-A

Matrix: Solid

Analysis Batch: 88597

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	243.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-47293-4 MS

Matrix: Solid

Analysis Batch: 88597

Client Sample ID: CS-4 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	39.5		249	281.5		mg/Kg		97	90 - 110

Lab Sample ID: 880-47293-4 MSD

Matrix: Solid

Analysis Batch: 88597

Client Sample ID: CS-4 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	39.5		249	281.8		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-88564/1-A

Matrix: Solid

Analysis Batch: 88610

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			08/16/24 11:29	1

Lab Sample ID: LCS 880-88564/2-A

Matrix: Solid

Analysis Batch: 88610

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-88564/3-A

Matrix: Solid

Analysis Batch: 88610

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	248.5		mg/Kg		99	90 - 110	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-47293-14 MS Matrix: Solid Analysis Batch: 88610											Client Sample ID: CS-14 (1.5') Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	93.2		249	336.1		mg/Kg		98	90 - 110				

Lab Sample ID: 880-47293-14 MSD Matrix: Solid Analysis Batch: 88610											Client Sample ID: CS-14 (1.5') Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	93.2		249	336.7		mg/Kg		98	90 - 110	0	20		

Lab Sample ID: 880-47293-24 MS Matrix: Solid Analysis Batch: 88610											Client Sample ID: SW-6 (1.5') Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	72.2		250	326.6		mg/Kg		102	90 - 110				

Lab Sample ID: 880-47293-24 MSD Matrix: Solid Analysis Batch: 88610											Client Sample ID: SW-6 (1.5') Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	72.2		250	327.0		mg/Kg		102	90 - 110	0	20		

QC Association Summary

Client: Carmona Resources

Job ID: 880-47293-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 88567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-47293-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-47293-3	CS-3 (1.5')	Total/NA	Solid	5035	
880-47293-4	CS-4 (1.5')	Total/NA	Solid	5035	
880-47293-5	CS-5 (1.5')	Total/NA	Solid	5035	
880-47293-6	CS-6 (1.5')	Total/NA	Solid	5035	
880-47293-7	CS-7 (1.5')	Total/NA	Solid	5035	
880-47293-8	CS-8 (1.5')	Total/NA	Solid	5035	
880-47293-9	CS-9 (1.5')	Total/NA	Solid	5035	
880-47293-10	CS-10 (1.5')	Total/NA	Solid	5035	
MB 880-88567/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88567/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88567/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47293-1 MS	CS-1 (1.5')	Total/NA	Solid	5035	
880-47293-1 MSD	CS-1 (1.5')	Total/NA	Solid	5035	

Prep Batch: 88568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-21	SW-3 (1.5')	Total/NA	Solid	5035	
880-47293-22	SW-4 (1.5')	Total/NA	Solid	5035	
880-47293-23	SW-5 (1.5')	Total/NA	Solid	5035	
880-47293-24	SW-6 (1.5')	Total/NA	Solid	5035	
880-47293-25	SW-7 (1.5')	Total/NA	Solid	5035	
880-47293-26	SW-8 (1.5')	Total/NA	Solid	5035	
MB 880-88568/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88568/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88568/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47293-21 MS	SW-3 (1.5')	Total/NA	Solid	5035	
880-47293-21 MSD	SW-3 (1.5')	Total/NA	Solid	5035	

Analysis Batch: 88579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-21	SW-3 (1.5')	Total/NA	Solid	8021B	88568
880-47293-22	SW-4 (1.5')	Total/NA	Solid	8021B	88568
880-47293-23	SW-5 (1.5')	Total/NA	Solid	8021B	88568
880-47293-24	SW-6 (1.5')	Total/NA	Solid	8021B	88568
880-47293-25	SW-7 (1.5')	Total/NA	Solid	8021B	88568
880-47293-26	SW-8 (1.5')	Total/NA	Solid	8021B	88568
MB 880-88568/5-A	Method Blank	Total/NA	Solid	8021B	88568
LCS 880-88568/1-A	Lab Control Sample	Total/NA	Solid	8021B	88568
LCSD 880-88568/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88568
880-47293-21 MS	SW-3 (1.5')	Total/NA	Solid	8021B	88568
880-47293-21 MSD	SW-3 (1.5')	Total/NA	Solid	8021B	88568

Analysis Batch: 88580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-11	CS-11 (1.5')	Total/NA	Solid	8021B	88583
880-47293-12	CS-12 (1.5')	Total/NA	Solid	8021B	88583
880-47293-13	CS-13 (1.5')	Total/NA	Solid	8021B	88583
880-47293-14	CS-14 (1.5')	Total/NA	Solid	8021B	88583
880-47293-15	CS-15 (1.5')	Total/NA	Solid	8021B	88583

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QC Association Summary

Client: Carmona Resources

Job ID: 880-47293-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 88580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-16	CS-16 (1.5')	Total/NA	Solid	8021B	88583
880-47293-17	CS-17 (1.5')	Total/NA	Solid	8021B	88583
880-47293-18	CS-18 (1.5')	Total/NA	Solid	8021B	88583
880-47293-19	SW-1 (1.5')	Total/NA	Solid	8021B	88583
880-47293-20	SW-2 (1.5')	Total/NA	Solid	8021B	88583
MB 880-88583/5-A	Method Blank	Total/NA	Solid	8021B	88583
LCS 880-88583/1-A	Lab Control Sample	Total/NA	Solid	8021B	88583
LCSD 880-88583/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88583
880-47293-11 MS	CS-11 (1.5')	Total/NA	Solid	8021B	88583
880-47293-11 MSD	CS-11 (1.5')	Total/NA	Solid	8021B	88583

Analysis Batch: 88581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-1	CS-1 (1.5')	Total/NA	Solid	8021B	88567
880-47293-2	CS-2 (1.5')	Total/NA	Solid	8021B	88567
880-47293-3	CS-3 (1.5')	Total/NA	Solid	8021B	88567
880-47293-4	CS-4 (1.5')	Total/NA	Solid	8021B	88567
880-47293-5	CS-5 (1.5')	Total/NA	Solid	8021B	88567
880-47293-6	CS-6 (1.5')	Total/NA	Solid	8021B	88567
880-47293-7	CS-7 (1.5')	Total/NA	Solid	8021B	88567
880-47293-8	CS-8 (1.5')	Total/NA	Solid	8021B	88567
880-47293-9	CS-9 (1.5')	Total/NA	Solid	8021B	88567
880-47293-10	CS-10 (1.5')	Total/NA	Solid	8021B	88567
MB 880-88567/5-A	Method Blank	Total/NA	Solid	8021B	88567
LCS 880-88567/1-A	Lab Control Sample	Total/NA	Solid	8021B	88567
LCSD 880-88567/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88567
880-47293-1 MS	CS-1 (1.5')	Total/NA	Solid	8021B	88567
880-47293-1 MSD	CS-1 (1.5')	Total/NA	Solid	8021B	88567

Prep Batch: 88583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-11	CS-11 (1.5')	Total/NA	Solid	5035	
880-47293-12	CS-12 (1.5')	Total/NA	Solid	5035	
880-47293-13	CS-13 (1.5')	Total/NA	Solid	5035	
880-47293-14	CS-14 (1.5')	Total/NA	Solid	5035	
880-47293-15	CS-15 (1.5')	Total/NA	Solid	5035	
880-47293-16	CS-16 (1.5')	Total/NA	Solid	5035	
880-47293-17	CS-17 (1.5')	Total/NA	Solid	5035	
880-47293-18	CS-18 (1.5')	Total/NA	Solid	5035	
880-47293-19	SW-1 (1.5')	Total/NA	Solid	5035	
880-47293-20	SW-2 (1.5')	Total/NA	Solid	5035	
MB 880-88583/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88583/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88583/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47293-11 MS	CS-11 (1.5')	Total/NA	Solid	5035	
880-47293-11 MSD	CS-11 (1.5')	Total/NA	Solid	5035	

Analysis Batch: 88690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-1	CS-1 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 88690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-3	CS-3 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-4	CS-4 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-5	CS-5 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-6	CS-6 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-7	CS-7 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-8	CS-8 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-9	CS-9 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-10	CS-10 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-11	CS-11 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-12	CS-12 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-13	CS-13 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-14	CS-14 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-15	CS-15 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-16	CS-16 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-17	CS-17 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-18	CS-18 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-19	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-20	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-21	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-22	SW-4 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-23	SW-5 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-24	SW-6 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-25	SW-7 (1.5')	Total/NA	Solid	Total BTEX	
880-47293-26	SW-8 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 88571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-21	SW-3 (1.5')	Total/NA	Solid	8015B NM	88589
880-47293-22	SW-4 (1.5')	Total/NA	Solid	8015B NM	88589
880-47293-23	SW-5 (1.5')	Total/NA	Solid	8015B NM	88589
880-47293-24	SW-6 (1.5')	Total/NA	Solid	8015B NM	88589
880-47293-25	SW-7 (1.5')	Total/NA	Solid	8015B NM	88589
880-47293-26	SW-8 (1.5')	Total/NA	Solid	8015B NM	88589
MB 880-88589/1-A	Method Blank	Total/NA	Solid	8015B NM	88589
LCS 880-88589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88589
LCSD 880-88589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88589
880-47298-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	88589
880-47298-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	88589

Prep Batch: 88589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-21	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-22	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-23	SW-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-24	SW-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-25	SW-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-26	SW-8 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-88589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 88589 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-88589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47298-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-47298-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 88590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-3	CS-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-4	CS-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-5	CS-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-6	CS-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-7	CS-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-8	CS-8 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-9	CS-9 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-10	CS-10 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-88590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47293-1 MS	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-1 MSD	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 88591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-11	CS-11 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-12	CS-12 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-13	CS-13 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-14	CS-14 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-15	CS-15 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-16	CS-16 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-17	CS-17 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-18	CS-18 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-19	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-20	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-88591/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88591/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88591/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47293-11 MS	CS-11 (1.5')	Total/NA	Solid	8015NM Prep	
880-47293-11 MSD	CS-11 (1.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-3	CS-3 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-4	CS-4 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-5	CS-5 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-6	CS-6 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-7	CS-7 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-8	CS-8 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-9	CS-9 (1.5')	Total/NA	Solid	8015B NM	88590

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 88593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-10	CS-10 (1.5')	Total/NA	Solid	8015B NM	88590
MB 880-88590/1-A	Method Blank	Total/NA	Solid	8015B NM	88590
LCS 880-88590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88590
LCSD 880-88590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88590
880-47293-1 MS	CS-1 (1.5')	Total/NA	Solid	8015B NM	88590
880-47293-1 MSD	CS-1 (1.5')	Total/NA	Solid	8015B NM	88590

Analysis Batch: 88594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-11	CS-11 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-12	CS-12 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-13	CS-13 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-14	CS-14 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-15	CS-15 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-16	CS-16 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-17	CS-17 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-18	CS-18 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-19	SW-1 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-20	SW-2 (1.5')	Total/NA	Solid	8015B NM	88591
MB 880-88591/1-A	Method Blank	Total/NA	Solid	8015B NM	88591
LCS 880-88591/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88591
LCSD 880-88591/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88591
880-47293-11 MS	CS-11 (1.5')	Total/NA	Solid	8015B NM	88591
880-47293-11 MSD	CS-11 (1.5')	Total/NA	Solid	8015B NM	88591

Analysis Batch: 88685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-1	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-47293-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-47293-3	CS-3 (1.5')	Total/NA	Solid	8015 NM	
880-47293-4	CS-4 (1.5')	Total/NA	Solid	8015 NM	
880-47293-5	CS-5 (1.5')	Total/NA	Solid	8015 NM	
880-47293-6	CS-6 (1.5')	Total/NA	Solid	8015 NM	
880-47293-7	CS-7 (1.5')	Total/NA	Solid	8015 NM	
880-47293-8	CS-8 (1.5')	Total/NA	Solid	8015 NM	
880-47293-9	CS-9 (1.5')	Total/NA	Solid	8015 NM	
880-47293-10	CS-10 (1.5')	Total/NA	Solid	8015 NM	
880-47293-11	CS-11 (1.5')	Total/NA	Solid	8015 NM	
880-47293-12	CS-12 (1.5')	Total/NA	Solid	8015 NM	
880-47293-13	CS-13 (1.5')	Total/NA	Solid	8015 NM	
880-47293-14	CS-14 (1.5')	Total/NA	Solid	8015 NM	
880-47293-15	CS-15 (1.5')	Total/NA	Solid	8015 NM	
880-47293-16	CS-16 (1.5')	Total/NA	Solid	8015 NM	
880-47293-17	CS-17 (1.5')	Total/NA	Solid	8015 NM	
880-47293-18	CS-18 (1.5')	Total/NA	Solid	8015 NM	
880-47293-19	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-47293-20	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-47293-21	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-47293-22	SW-4 (1.5')	Total/NA	Solid	8015 NM	
880-47293-23	SW-5 (1.5')	Total/NA	Solid	8015 NM	
880-47293-24	SW-6 (1.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 88685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-25	SW-7 (1.5')	Total/NA	Solid	8015 NM	
880-47293-26	SW-8 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 88563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-47293-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-47293-3	CS-3 (1.5')	Soluble	Solid	DI Leach	
880-47293-4	CS-4 (1.5')	Soluble	Solid	DI Leach	
880-47293-5	CS-5 (1.5')	Soluble	Solid	DI Leach	
880-47293-6	CS-6 (1.5')	Soluble	Solid	DI Leach	
880-47293-7	CS-7 (1.5')	Soluble	Solid	DI Leach	
880-47293-8	CS-8 (1.5')	Soluble	Solid	DI Leach	
880-47293-9	CS-9 (1.5')	Soluble	Solid	DI Leach	
880-47293-10	CS-10 (1.5')	Soluble	Solid	DI Leach	
880-47293-11	CS-11 (1.5')	Soluble	Solid	DI Leach	
880-47293-12	CS-12 (1.5')	Soluble	Solid	DI Leach	
880-47293-13	CS-13 (1.5')	Soluble	Solid	DI Leach	
MB 880-88563/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88563/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88563/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47293-4 MS	CS-4 (1.5')	Soluble	Solid	DI Leach	
880-47293-4 MSD	CS-4 (1.5')	Soluble	Solid	DI Leach	

Leach Batch: 88564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-14	CS-14 (1.5')	Soluble	Solid	DI Leach	
880-47293-15	CS-15 (1.5')	Soluble	Solid	DI Leach	
880-47293-16	CS-16 (1.5')	Soluble	Solid	DI Leach	
880-47293-17	CS-17 (1.5')	Soluble	Solid	DI Leach	
880-47293-18	CS-18 (1.5')	Soluble	Solid	DI Leach	
880-47293-19	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-47293-20	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-47293-21	SW-3 (1.5')	Soluble	Solid	DI Leach	
880-47293-22	SW-4 (1.5')	Soluble	Solid	DI Leach	
880-47293-23	SW-5 (1.5')	Soluble	Solid	DI Leach	
880-47293-24	SW-6 (1.5')	Soluble	Solid	DI Leach	
880-47293-25	SW-7 (1.5')	Soluble	Solid	DI Leach	
880-47293-26	SW-8 (1.5')	Soluble	Solid	DI Leach	
MB 880-88564/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88564/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88564/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47293-14 MS	CS-14 (1.5')	Soluble	Solid	DI Leach	
880-47293-14 MSD	CS-14 (1.5')	Soluble	Solid	DI Leach	
880-47293-24 MS	SW-6 (1.5')	Soluble	Solid	DI Leach	
880-47293-24 MSD	SW-6 (1.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-47293-1

Project/Site: Copperhead Fee 31 E CTB (05.27.24)

SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 88597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-1	CS-1 (1.5')	Soluble	Solid	300.0	88563
880-47293-2	CS-2 (1.5')	Soluble	Solid	300.0	88563
880-47293-3	CS-3 (1.5')	Soluble	Solid	300.0	88563
880-47293-4	CS-4 (1.5')	Soluble	Solid	300.0	88563
880-47293-5	CS-5 (1.5')	Soluble	Solid	300.0	88563
880-47293-6	CS-6 (1.5')	Soluble	Solid	300.0	88563
880-47293-7	CS-7 (1.5')	Soluble	Solid	300.0	88563
880-47293-8	CS-8 (1.5')	Soluble	Solid	300.0	88563
880-47293-9	CS-9 (1.5')	Soluble	Solid	300.0	88563
880-47293-10	CS-10 (1.5')	Soluble	Solid	300.0	88563
880-47293-11	CS-11 (1.5')	Soluble	Solid	300.0	88563
880-47293-12	CS-12 (1.5')	Soluble	Solid	300.0	88563
880-47293-13	CS-13 (1.5')	Soluble	Solid	300.0	88563
MB 880-88563/1-A	Method Blank	Soluble	Solid	300.0	88563
LCS 880-88563/2-A	Lab Control Sample	Soluble	Solid	300.0	88563
LCSD 880-88563/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88563
880-47293-4 MS	CS-4 (1.5')	Soluble	Solid	300.0	88563
880-47293-4 MSD	CS-4 (1.5')	Soluble	Solid	300.0	88563

Analysis Batch: 88610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47293-14	CS-14 (1.5')	Soluble	Solid	300.0	88564
880-47293-15	CS-15 (1.5')	Soluble	Solid	300.0	88564
880-47293-16	CS-16 (1.5')	Soluble	Solid	300.0	88564
880-47293-17	CS-17 (1.5')	Soluble	Solid	300.0	88564
880-47293-18	CS-18 (1.5')	Soluble	Solid	300.0	88564
880-47293-19	SW-1 (1.5')	Soluble	Solid	300.0	88564
880-47293-20	SW-2 (1.5')	Soluble	Solid	300.0	88564
880-47293-21	SW-3 (1.5')	Soluble	Solid	300.0	88564
880-47293-22	SW-4 (1.5')	Soluble	Solid	300.0	88564
880-47293-23	SW-5 (1.5')	Soluble	Solid	300.0	88564
880-47293-24	SW-6 (1.5')	Soluble	Solid	300.0	88564
880-47293-25	SW-7 (1.5')	Soluble	Solid	300.0	88564
880-47293-26	SW-8 (1.5')	Soluble	Solid	300.0	88564
MB 880-88564/1-A	Method Blank	Soluble	Solid	300.0	88564
LCS 880-88564/2-A	Lab Control Sample	Soluble	Solid	300.0	88564
LCSD 880-88564/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88564
880-47293-14 MS	CS-14 (1.5')	Soluble	Solid	300.0	88564
880-47293-14 MSD	CS-14 (1.5')	Soluble	Solid	300.0	88564
880-47293-24 MS	SW-6 (1.5')	Soluble	Solid	300.0	88564
880-47293-24 MSD	SW-6 (1.5')	Soluble	Solid	300.0	88564

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-47293-1

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 11:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 12:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 12:19	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 12:47	CH	EET MID

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-47293-2

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 13:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 13:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 12:53	CH	EET MID

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-47293-3

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 13:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 13:29	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 12:59	CH	EET MID

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-47293-4

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:57	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-4
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			88685	08/16/24 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 13:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 13:05	CH	EET MID

Client Sample ID: CS-5 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 14:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 14:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 13:23	CH	EET MID

Client Sample ID: CS-6 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-6
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			4.97 g	5 mL	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 13:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 14:22	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 13:29	CH	EET MID

Client Sample ID: CS-7 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-7
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	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 13:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 14:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-47293-7

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 13:47	CH	EET MID

Client Sample ID: CS-8 (1.5')

Lab Sample ID: 880-47293-8

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 14:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 14:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 14:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 13:53	CH	EET MID

Client Sample ID: CS-9 (1.5')

Lab Sample ID: 880-47293-9

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 14:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 15:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 13:59	CH	EET MID

Client Sample ID: CS-10 (1.5')

Lab Sample ID: 880-47293-10

Date Collected: 08/09/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 15:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 15:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88590	08/16/24 09:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88593	08/16/24 15:33	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 14:05	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-11 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-11
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			4.98 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 11:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 11:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 12:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 12:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 14:11	CH	EET MID

Client Sample ID: CS-12 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-12
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	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 13:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 13:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 14:18	CH	EET MID

Client Sample ID: CS-13 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 13:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 13:29	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 14:24	CH	EET MID

Client Sample ID: CS-14 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-14
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			5.03 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:44	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-14 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-14
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			88685	08/16/24 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 13:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 11:51	CH	EET MID

Client Sample ID: CS-15 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 13:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 14:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 14:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 12:13	CH	EET MID

Client Sample ID: CS-16 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-16
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	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 13:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 13:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 14:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 12:20	CH	EET MID

Client Sample ID: CS-17 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-17
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			5.03 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 13:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 14:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-17 (1.5')

Date Collected: 08/09/24 00:00

Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 12:27	CH	EET MID

Client Sample ID: CS-18 (1.5')

Date Collected: 08/09/24 00:00

Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 14:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 14:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 12:35	CH	EET MID

Client Sample ID: SW-1 (1.5')

Date Collected: 08/09/24 00:00

Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-19

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			5.01 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 14:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 15:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 12:57	CH	EET MID

Client Sample ID: SW-2 (1.5')

Date Collected: 08/09/24 00:00

Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 14:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88591	08/16/24 09:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88594	08/16/24 15:33	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 13:04	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 11:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 11:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	88589	08/16/24 09:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88571	08/16/24 11:59	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 13:11	CH	EET MID

Client Sample ID: SW-4 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 11:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 12:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88589	08/16/24 09:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88571	08/16/24 12:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 13:18	CH	EET MID

Client Sample ID: SW-5 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88589	08/16/24 09:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88571	08/16/24 12:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 13:26	CH	EET MID

Client Sample ID: SW-6 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:32	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-6 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			88685	08/16/24 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88589	08/16/24 09:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88571	08/16/24 12:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 13:33	CH	EET MID

Client Sample ID: SW-7 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	88589	08/16/24 09:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88571	08/16/24 13:20	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 13:55	CH	EET MID

Client Sample ID: SW-8 (1.5')
Date Collected: 08/09/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47293-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88690	08/16/24 13:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88685	08/16/24 13:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	88589	08/16/24 09:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88571	08/16/24 13:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88564	08/15/24 19:36	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88610	08/16/24 14:02	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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
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: Copperhead Fee 31 E CTB (05.27.24)

Job ID: 880-47293-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47293-1	CS-1 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-2	CS-2 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-3	CS-3 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-4	CS-4 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-5	CS-5 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-6	CS-6 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-7	CS-7 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-8	CS-8 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-9	CS-9 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-10	CS-10 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-11	CS-11 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-12	CS-12 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-13	CS-13 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-14	CS-14 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-15	CS-15 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-16	CS-16 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-17	CS-17 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-18	CS-18 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-19	SW-1 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-20	SW-2 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-21	SW-3 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-22	SW-4 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-23	SW-5 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-24	SW-6 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-25	SW-7 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42
880-47293-26	SW-8 (1.5')	Solid	08/09/24 00:00	08/15/24 16:42

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Chain of Custody



880-47293 Chain of Custody

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

Project Name:	Copperhead Fee 31 E CTB (05.27.24)	Turn Around	Pres. Code	ANALYSIS REQUEST										Preservative Codes									
Project Number:	2415	☐ Routine ☒ Rush															None: NO	DI Water: H ₂ O					
Project Location:	Eddy County, New Mexico	Due Date:	24 HR														Cool: Cool	MeOH: Me					
Sampler's Name:	JR																HCL: HC	HNO ₃ : HN					
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na					
SAMPLE RECEIPT	Temp Blank: Yes No	Yes No	Well Ice: Yes No														H ₃ PO ₄ : HP						
Received Intact:	Yes No	Thermometer ID:															NaHSO ₄ : NABIS						
Cooler Custody Seals:	Yes No	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃						
Sample Custody Seals:	Yes No	Temperature Reading:															Zn Acetate+NaOH: Zn						
Total Containers:		Corrected Temperature:															NaOH+Ascorbic Acid: SAPC						

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	TP												Sample Comments
CS-1 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-2 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-3 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-4 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-5 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-6 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-7 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-8 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-9 (1.5')	8/9/2024		X		C	1	X	X	X										
CS-10 (1.5')	8/9/2024		X		C	1	X	X	X										

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Conner Moehring	8/15/24		8/15/24 16:44

Work Order No: 47293

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	jmcammona@carmonaresources.com

Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

Project Name:		Copperhead Fee 31 E CTB (05.27.24)		Turn Around		ANALYSIS REQUEST										Preservative Codes							
Project Number:		2415		☐ Routine ☒ Rush		Pss. Code											None: NO	DI Water: H ₂ O					
Project Location		Eddy County, New Mexico		Due Date:		24 HR												Cool: Cool		MeOH: Me			
Sampler's Name:		JR												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 Inact:		Yes No		Thermometer ID:												NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes No		Correction Factor:												Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes No		Temperature Reading:												Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:												NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont		Sample Comments									
CS-11 (1.5)		8/9/2024				X				C		1		X X X									
CS-12 (1.5)		8/9/2024				X				C		1		X X X									
CS-13 (1.5)		8/9/2024				X				C		1		X X X									
CS-14 (1.5)		8/9/2024				X				C		1		X X X									
CS-15 (1.5)		8/9/2024				X				C		1		X X X									
CS-16 (1.5)		8/9/2024				X				C		1		X X X									
CS-17 (1.5)		8/9/2024				X				C		1		X X X									
CS-18 (1.5)		8/9/2024				X				C		1		X X X									
SW-1 (1.5)		8/9/2024				X				C		1		X X X									
SW-2 (1.5)		8/9/2024				X				C		1		X X X									

Comments: Email to [Mike Carmona / Mccarmona@carmonaresources.com](mailto:Mccarmona@carmonaresources.com) and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/15/24		8/15/24

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Chain of Custody

Work Order No: 47293

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Project Manager:	Conner Moehring	Bill to: (if different)	Cammona Resources
Company Name:	Cammona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@cammonaresources.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Unperfund
State of Project:	
Reporting Level II	☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD	☐ ADAPT ☐ Other:

Project Name:		Copperhead Fee 31 E CTB (05.27.24)		Turn Around		ANALYSIS REQUEST												Preservative Codes									
Project Number:	2415			☐ Routine	☒ Rush	Pres. Code											None: NO	DI Water: H ₂ O									
Project Location	Eddy County, New Mexico			Due Date:	24 HR												Cool: Cool	MeOH: Me									
Sampler's Name:	JR																HCL: HC	HNO ₃ : HN									
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na									
SAMPLE RECEIPT				Temp Blank:	Yes	No	Wet Ice:	Yes	No	Parameters								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	# of Cont	BTX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300.0										Sample Comments								
SW-3 (1.5')			8/9/2024		X		C	1											X	X	X						
SW-4 (1.5')			8/9/2024		X		C	1											X	X	X						
SW-5 (1.5')			8/9/2024		X		C	1											X	X	X						
SW-6 (1.5')			8/9/2024		X		C	1											X	X	X						
SW-7 (1.5')			8/9/2024		X		C	1											X	X	X						
SW-8 (1.5')			8/9/2024		X		C	1											X	X	X						

Comments: Email to Mike Cammona / Mcammona@cammonaresources.com and Conner Moehring / Cmoehring@cammonaresources.com

Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time
		8/15/24			8/15/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-47293-1
SDG Number: Eddy County, New Mexico

Login Number: 47293
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 8/8/2024 11:08:16 AM

JOB DESCRIPTION

Cottonmouth 23 Federal Com 001H (06.06.24)
Eddy County, New Mexico

JOB NUMBER

880-46990-1

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



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8/8/2024 11:08:16 AM

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

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Laboratory Job ID: 880-46990-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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
SQL	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: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1

Job ID: 880-46990-1Eurofins Midland

Job Narrative
880-46990-1

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

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

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

Receipt

The sample was received on 8/7/2024 3:11 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.5°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: Onsurez Pit (880-46990-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87806 exhibited % difference of > 20% for the following analyte(s) Diesel Range Organics (Over C10-C28). These results are within the labs acceptance limits but exceed the performance criteria.

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.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

Client Sample ID: Onsurez Pit

Lab Sample ID: 880-46990-1

Date Collected: 08/06/24 00:00

Matrix: Solid

Date Received: 08/07/24 15:11

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		08/07/24 15:31	08/07/24 22:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/07/24 22:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/07/24 22:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/07/24 22:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/07/24 22:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/07/24 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/07/24 15:31	08/07/24 22:37	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/07/24 15:31	08/07/24 22:37	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			08/07/24 22:37	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			08/07/24 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/07/24 15:46	08/07/24 19:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/24 15:46	08/07/24 19:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/24 15:46	08/07/24 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				08/07/24 15:46	08/07/24 19:07	1
o-Terphenyl	82		70 - 130				08/07/24 15:46	08/07/24 19:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.4		5.02		mg/Kg			08/08/24 07:01	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-46990-1	Onsurez Pit	109	100
880-46990-1 MS	Onsurez Pit	103	99
880-46990-1 MSD	Onsurez Pit	102	98
LCS 880-87776/1-A	Lab Control Sample	107	100
LCSD 880-87776/2-A	Lab Control Sample Dup	104	99
MB 880-87718/5-A	Method Blank	103	92
MB 880-87776/5-A	Method Blank	107	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-46990-1	Onsurez Pit	73	82
880-46990-1 MS	Onsurez Pit	90	91
880-46990-1 MSD	Onsurez Pit	89	89
LCS 880-87779/2-A	Lab Control Sample	96	97
LCSD 880-87779/3-A	Lab Control Sample Dup	86	87
MB 880-87779/1-A	Method Blank	81	93
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87718/5-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87718

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/07/24 08:51	08/07/24 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/07/24 08:51	08/07/24 11:11	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/07/24 08:51	08/07/24 11:11	1

Lab Sample ID: MB 880-87776/5-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87776

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/07/24 15:31	08/07/24 22:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/07/24 15:31	08/07/24 22:16	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/07/24 15:31	08/07/24 22:16	1

Lab Sample ID: LCS 880-87776/1-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1114		mg/Kg		111	70 - 130
Toluene	0.100	0.1002		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-87776/2-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87776

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1021		mg/Kg		102	70 - 130	9	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-87776/2-A
Matrix: Solid
Analysis Batch: 87707

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87776

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	
	Added	Result	Qualifier	Result			Limits	RPD	Limit	
Toluene	0.100	0.09174			mg/Kg		92	70 - 130	9	35
Ethylbenzene	0.100	0.09457			mg/Kg		95	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1981			mg/Kg		99	70 - 130	9	35
o-Xylene	0.100	0.09990			mg/Kg		100	70 - 130	9	35
Surrogate		LCSD	LCSD	Limits						
	%Recovery	Qualifier								
4-Bromofluorobenzene (Surr)	104		70 - 130							
1,4-Difluorobenzene (Surr)	99		70 - 130							

Lab Sample ID: 880-46990-1 MS
Matrix: Solid
Analysis Batch: 87707

Client Sample ID: Onsurez Pit
Prep Type: Total/NA
Prep Batch: 87776

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	<0.00201	U	0.0998	0.09960		mg/Kg		100	70 - 130		
Toluene	<0.00201	U	0.0998	0.08884		mg/Kg		89	70 - 130		
Ethylbenzene	<0.00201	U	0.0998	0.09078		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1879		mg/Kg		94	70 - 130		
o-Xylene	<0.00201	U	0.0998	0.09434		mg/Kg		95	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								

Lab Sample ID: 880-46990-1 MSD
Matrix: Solid
Analysis Batch: 87707

Client Sample ID: Onsurez Pit
Prep Type: Total/NA
Prep Batch: 87776

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Benzene	<0.00201	U	0.100	0.1000		mg/Kg		100	70 - 130	0	35
Toluene	<0.00201	U	0.100	0.08863		mg/Kg		88	70 - 130	0	35
Ethylbenzene	<0.00201	U	0.100	0.08983		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1858		mg/Kg		93	70 - 130	1	35
o-Xylene	<0.00201	U	0.100	0.09273		mg/Kg		93	70 - 130	2	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

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

Lab Sample ID: MB 880-87779/1-A
Matrix: Solid
Analysis Batch: 87806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87779

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		08/07/24 15:46	08/07/24 16:42		1

Eurofins Midland

QC Sample Results

Client: Carmona Resources

Job ID: 880-46990-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-87779/1-A

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87779

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		08/07/24 15:46	08/07/24 16:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 16:42	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	81		70 - 130				08/07/24 15:46	08/07/24 16:42	1
o-Terphenyl	93		70 - 130				08/07/24 15:46	08/07/24 16:42	1

Lab Sample ID: LCS 880-87779/2-A

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	840.0		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	906.4		mg/Kg		91	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	97		70 - 130						

Lab Sample ID: LCSD 880-87779/3-A

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87779

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	762.6		mg/Kg		76	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	789.8		mg/Kg		79	70 - 130	14	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	86		70 - 130						
o-Terphenyl	87		70 - 130						

Lab Sample ID: 880-46990-1 MS

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Onsurez Pit

Prep Type: Total/NA

Prep Batch: 87779

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	767.6		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	821.6		mg/Kg		82	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	90		70 - 130								
o-Terphenyl	91		70 - 130								

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46990-1 MSD

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Onsurez Pit

Prep Type: Total/NA

Prep Batch: 87779

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	760.8		mg/Kg	-	76	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	813.5		mg/Kg		82	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87777/1-A

Matrix: Solid

Analysis Batch: 87788

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			08/08/24 05:18	1

Lab Sample ID: LCS 880-87777/2-A

Matrix: Solid

Analysis Batch: 87788

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-87777/3-A

Matrix: Solid

Analysis Batch: 87788

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD
							Limits	RPD
Chloride	250	247.5		mg/Kg	-	99	90 - 110	0

Lab Sample ID: 880-46990-1 MS

Matrix: Solid

Analysis Batch: 87788

Client Sample ID: Onsurez Pit

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier							
Chloride	19.4		251	266.2		mg/Kg		98	90 - 110			

Lab Sample ID: 880-46990-1 MSD

Matrix: Solid

Analysis Batch: 87788

Client Sample ID: Onsurez Pit

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride	19.4		251	266.5		mg/Kg		98	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 87707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	8021B	87776
MB 880-87718/5-A	Method Blank	Total/NA	Solid	8021B	87718
MB 880-87776/5-A	Method Blank	Total/NA	Solid	8021B	87776
LCS 880-87776/1-A	Lab Control Sample	Total/NA	Solid	8021B	87776
LCSD 880-87776/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87776
880-46990-1 MS	Onsurez Pit	Total/NA	Solid	8021B	87776
880-46990-1 MSD	Onsurez Pit	Total/NA	Solid	8021B	87776

Prep Batch: 87718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87718/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 87776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	5035	
MB 880-87776/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87776/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87776/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46990-1 MS	Onsurez Pit	Total/NA	Solid	5035	
880-46990-1 MSD	Onsurez Pit	Total/NA	Solid	5035	

Analysis Batch: 87831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	8015NM Prep	
MB 880-87779/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87779/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46990-1 MS	Onsurez Pit	Total/NA	Solid	8015NM Prep	
880-46990-1 MSD	Onsurez Pit	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	8015B NM	87779
MB 880-87779/1-A	Method Blank	Total/NA	Solid	8015B NM	87779
LCS 880-87779/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87779
LCSD 880-87779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87779
880-46990-1 MS	Onsurez Pit	Total/NA	Solid	8015B NM	87779
880-46990-1 MSD	Onsurez Pit	Total/NA	Solid	8015B NM	87779

Analysis Batch: 87833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 87777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Soluble	Solid	DI Leach	
MB 880-87777/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87777/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87777/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46990-1 MS	Onsurez Pit	Soluble	Solid	DI Leach	
880-46990-1 MSD	Onsurez Pit	Soluble	Solid	DI Leach	

Analysis Batch: 87788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Soluble	Solid	300.0	87777
MB 880-87777/1-A	Method Blank	Soluble	Solid	300.0	87777
LCS 880-87777/2-A	Lab Control Sample	Soluble	Solid	300.0	87777
LCSD 880-87777/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87777
880-46990-1 MS	Onsurez Pit	Soluble	Solid	300.0	87777
880-46990-1 MSD	Onsurez Pit	Soluble	Solid	300.0	87777

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

Client Sample ID: Onsurez Pit
Date Collected: 08/06/24 00:00
Date Received: 08/07/24 15:11

Lab Sample ID: 880-46990-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/07/24 22:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87831	08/07/24 22:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87833	08/07/24 19:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 19:07	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 07:01	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: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources

Job ID: 880-46990-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

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: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46990-1	Onsurez Pit	Solid	08/06/24 00:00	08/07/24 15:11

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



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Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other: _____	

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Donna M. [Signature]</i>	8/7/24	<i>[Signature]</i>	8/7/24 151

Chain of Custody

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-46990-1

SDG Number: Eddy County, New Mexico

Login Number: 46990

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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	

APPENDIX F

CARMONA RESOURCES



Soil Map—Eddy Area, New Mexico



Map Scale: 1:406 if printed on A landscape (11" x 8.5") sheet.

0 5 10 20 30 Meters

0 15 30 60 90 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/10/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Soil Map—Eddy Area, New Mexico

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RU	Russler-Ector association, 0 to 9 percent slopes	0.3	100.0%
Totals for Area of Interest		0.3	100.0%

Map Unit Description: Russler-Ector association, 0 to 9 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RU—Russler-Ector association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5k

Elevation: 1,250 to 4,800 feet

Mean annual precipitation: 10 to 25 inches

Mean annual air temperature: 57 to 66 degrees F

Frost-free period: 195 to 225 days

Farmland classification: Not prime farmland

Map Unit Composition

Russler and similar soils: 60 percent

Ector and similar soils: 25 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Russler

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium

Typical profile

H1 - 0 to 11 inches: loam

H2 - 11 to 45 inches: clay loam

H3 - 45 to 60 inches: gypsiferous material

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: 20 to 47 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 40 percent

Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Map Unit Description: Russler-Ector association, 0 to 9 percent slopes---Eddy Area, New Mexico

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: C
Ecological site: R042CY153NM - Loamy
Hydric soil rating: No

Description of Ector

Setting

Landform: Ridges, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 8 inches: very cobbly loam
H2 - 8 to 60 inches: bedrock

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 4 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 0.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042CY158NM - Very Shallow
Hydric soil rating: No

Minor Components

Gypsum land

Percent of map unit: 8 percent
Hydric soil rating: No

Cottonwood

Percent of map unit: 7 percent
Ecological site: R070BB006NM - Gyp Upland

Map Unit Description: Russler-Ector association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

(26)

BLM SERIAL #:

COMPANY REFERENCE:

3.1 Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains lovegrass (<i>Eragrostis intermedia</i>)	0.5
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sideoats grama (<i>Bouteloua curtipendula</i>)	5.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

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QUESTIONS

Action 383010

QUESTIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 383010
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416339425
Incident Name	NAPP2416339425 COPPERHEAD FEE 31E CTB @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2203846942] COPPERHEAD 31 FED BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Copperhead Fee 31E CTB
Date Release Discovered	05/27/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 383010

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID:
	217955
	Action Number:
	383010
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/11/2024
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QUESTIONS, Page 3

Action 383010

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID:	217955
	Action Number:	383010
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	5390
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	49
GRO+DRO	(EPA SW-846 Method 8015M)	49
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/06/2024
On what date will (or did) the final sampling or liner inspection occur	08/09/2024
On what date will (or was) the remediation complete(d)	08/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	7820
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	3350
What is the estimated volume (in cubic yards) that will be remediated	200

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 383010

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID:	217955
	Action Number:	383010
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Copperhead 31 Fee 20H Battery [fAPP2132637940]
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)	No
(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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 09/12/2024
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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 383010

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 383010
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 383010

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID:
	217955
	Action Number:
	383010
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	371296
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024
What was the (estimated) number of samples that were to be gathered	27
What was the sampling surface area in square feet	3350

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	3350
What was the total volume (cubic yards) remediated	200
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	7820
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	na

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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 09/12/2024
--	---

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QUESTIONS, Page 7

Action 383010

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID:	217955
	Action Number:	383010
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	7820
What was the total volume of replacement material (in cubic yards) for this site	200

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a 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.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	08/15/2024

Summarize any additional reclamation activities not included by answers (above)	BLM seed mix #1
---	-----------------

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 09/12/2024
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QUESTIONS, Page 8

Action 383010

QUESTIONS (continued)

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 383010
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 383010

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 383010
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	Reclamation approved.	10/1/2024