

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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> 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>Patricia Zapanta</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____



SITE INFORMATION

Closure Report
Rider BRQ Federal Com 2H (12.27.2023)
Incident #: napp2400243867
Lea County, New Mexico
Unit M Sec 13 T25S R34E
32.124°, -103.4301°

Crude Oil Release
Point of Release: Equipment Failure
Release Date: 12.27.2023
Volume Released: 1 Barrel of Crude Oil
Volume Recovered: 0 Barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
Concho Operating, LLC
600 W Illinois Ave,
Midland, Texas 79701

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

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1	OVERVIEW	FIGURE 2	TOPOGRAPHIC
FIGURE 3	SAMPLE LOCATION	FIGURE 4	EXCAVATION

APPENDICES

APPENDIX A	TABLES
APPENDIX B	PHOTOS
APPENDIX C	INITIAL AND FINAL C-141
APPENDIX D	SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E	LABORATORY REPORTS



January 31, 2024

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

Re: Closure Report
Rider BRQ Federal Com 2H (12.27.2023)
Concho Operating, LLC
Site Location: Unit M, S13, T25S, R34E
(Lat 32.124°, Long -103.4301°)
Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Rider BRQ Federal Com 2H (12.27.23). The site is located at 32.124, -103.4301 within Unit M, S13, T25S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on December 27, 2023, from equipment failure. It resulted in approximately one (1) barrel of crude oil being released and zero (0) barrels of crude oil being recovered. The impacted area occurred on the pad and pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 1.13 miles Southeast of the site in S24, T25S, R34E and was drilled in 1949. The well has a reported depth to groundwater of 300 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On January 8, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 1.5' bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins 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. 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 onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via web portal on January 24, 2024, per Subsection D of 19.15.29.12 NMAC. The areas of S-1 and S-3 were excavated to a depth of 1.0', and the area of S-2 was excavated to a depth of 2.0'. A total of five (5) confirmation floor samples were collected (CS-1 through CS-5), and thirteen (13) sidewall samples (SW-1 through SW-13) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Approximately 80 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

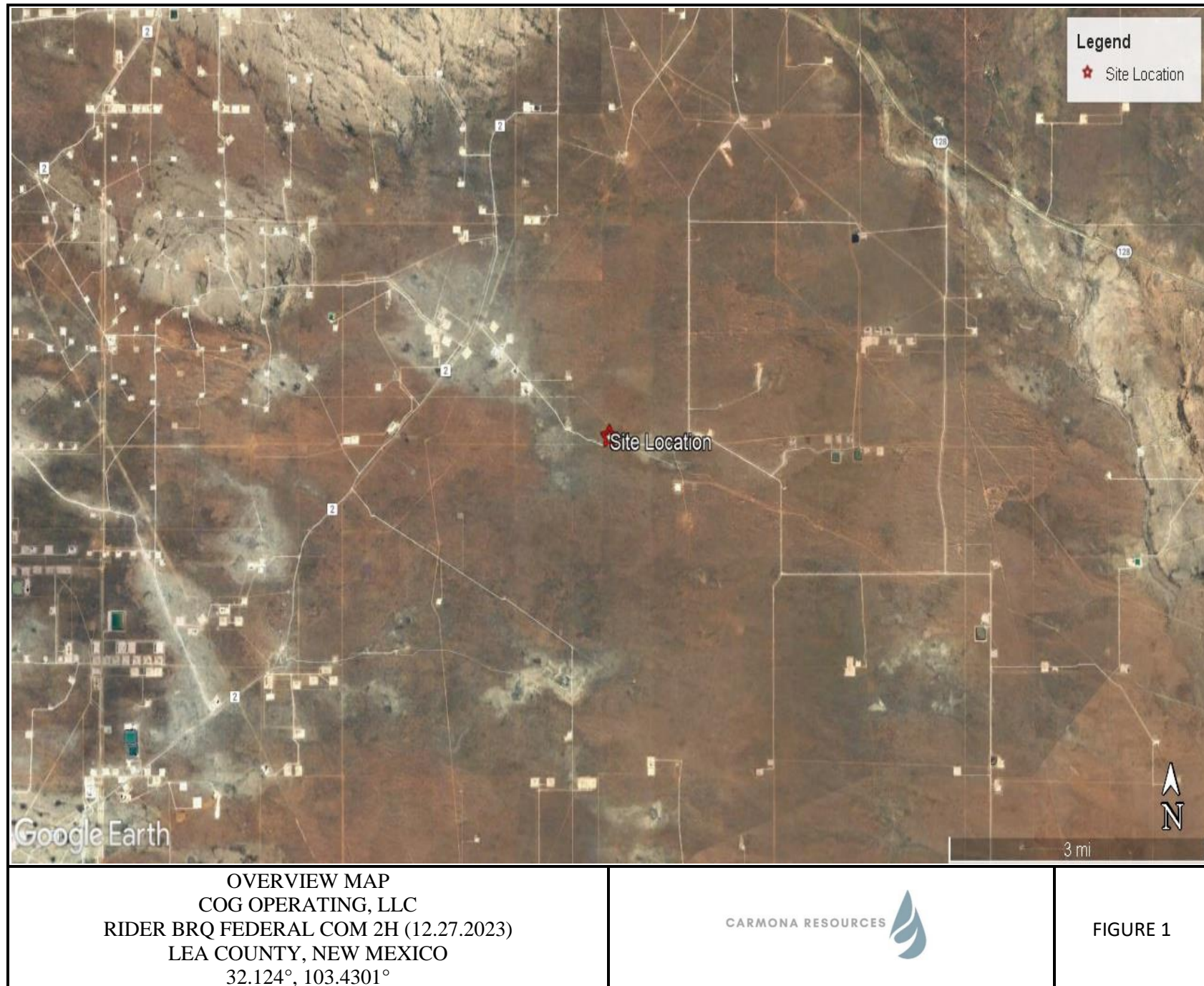
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



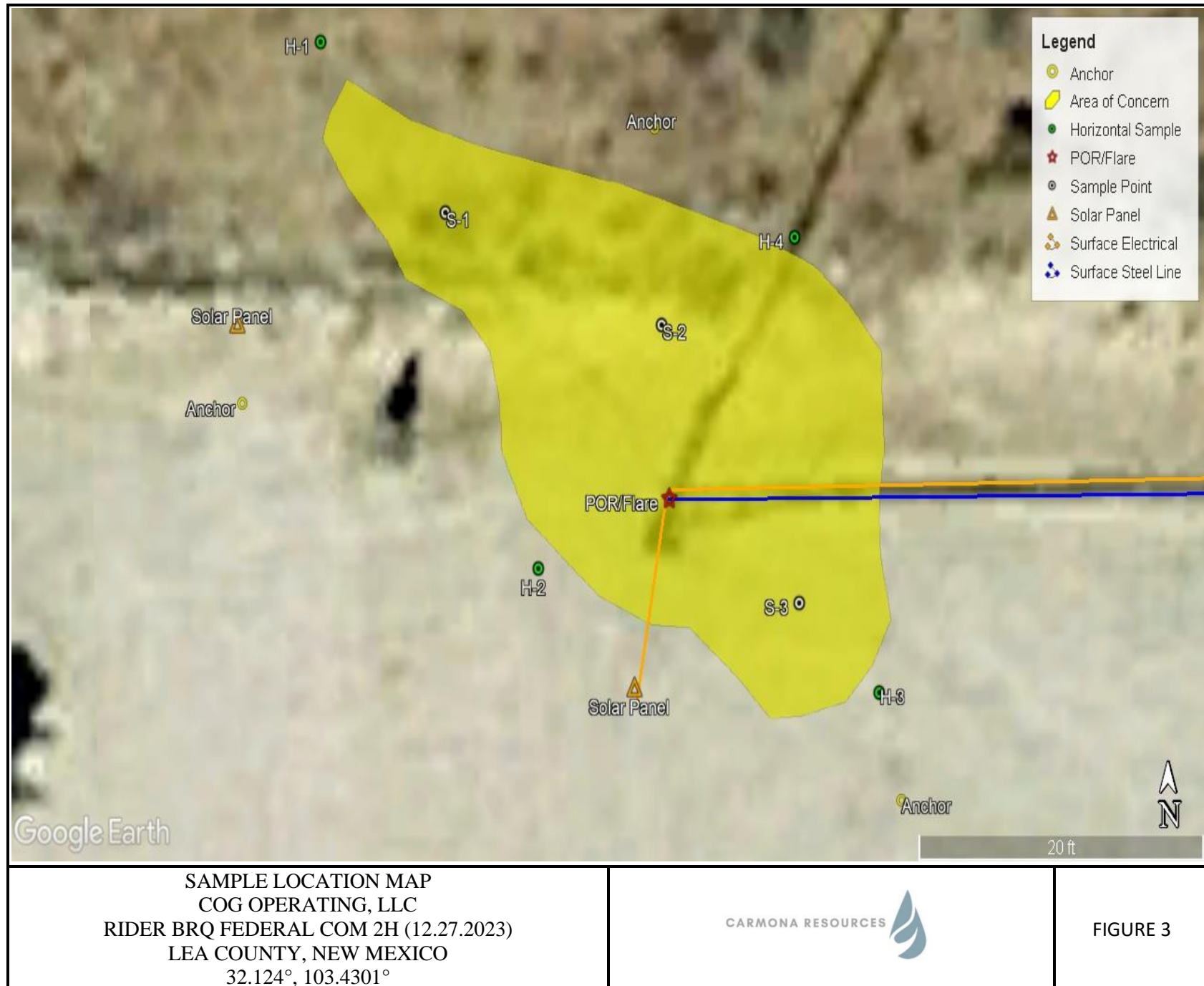


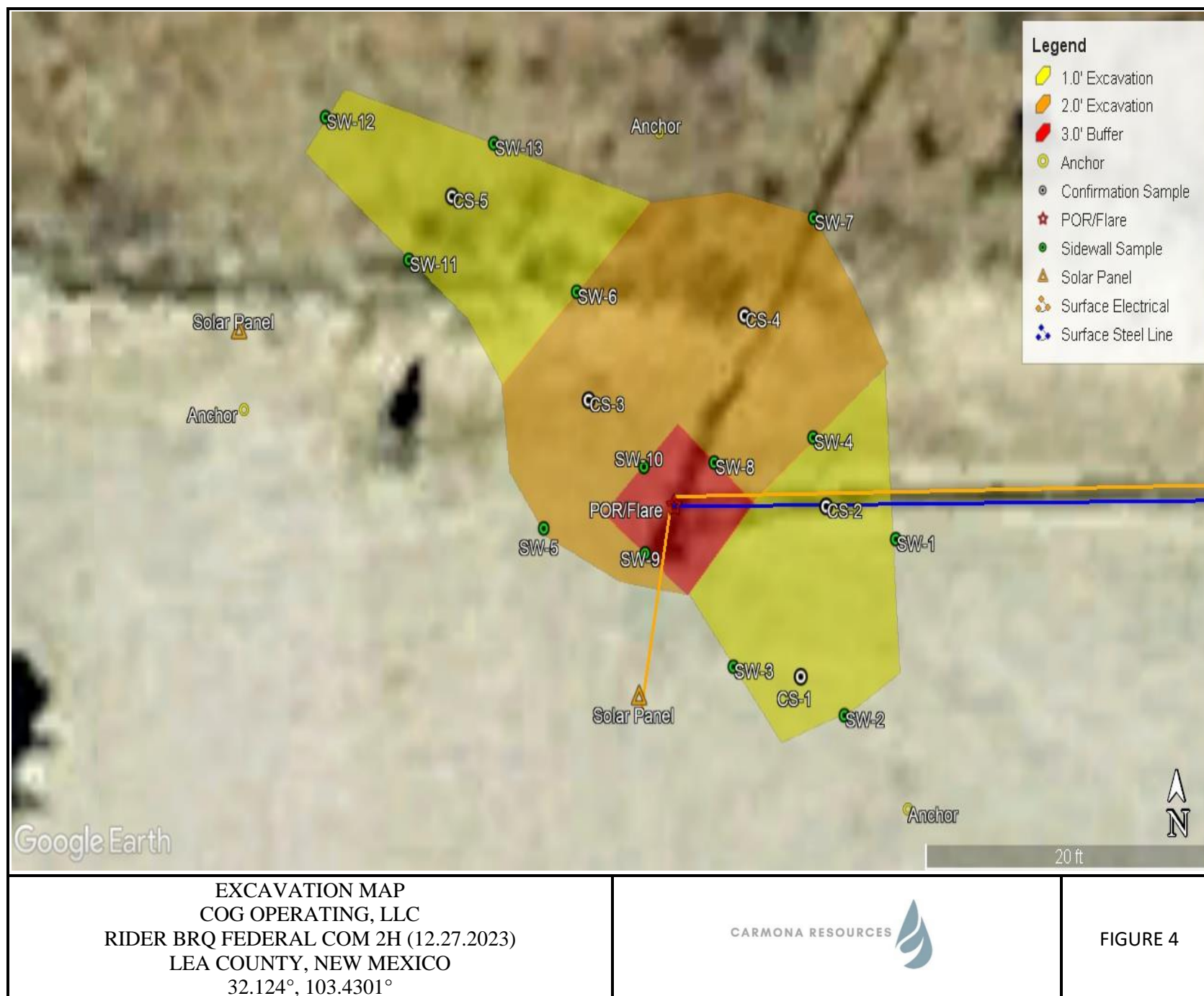


TOPOGRAPHIC MAP
COG OPERATING, LLC
RIDER BRQ FEDERAL COM 2H (12.27.2023)
LEA COUNTY, NEW MEXICO
32.124°, 103.4301°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating, LLC
Rider BRQ Federal #2H (12.27.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	1/8/2024	0-0.5	<49.8	168	<49.8	168	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	5.30
	"	1.0	<49.9	62.0	<49.9	62.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.97
	"	1.5	<49.9	59.2	<49.9	59.2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	4.98
S-2	1/8/2024	0-0.5	<50.0	228	<50.0	228	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.86
	"	1.0	<50.1	482	<50.1	482	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.7
S-3	1/8/2024	0-0.5	<50.3	108	<50.3	108	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5.22
H-1	10/3/2023	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<4.98
H-2	10/3/2023	0-1	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.00
H-3	10/3/2023	0-1	<50.1	95.2	<50.1	95.2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5.83
H-4	10/3/2023	0-1	<50.4	546	<50.4	546	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.99
	1/26/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) 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

 Removed

Table 2
COG Operating, LLC
Rider BRQ Federal Com #2H (12.27.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-3	1/26/2024	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-4	1/26/2024	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-5	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-1	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-2	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-5	1/26/2024	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-6	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	1/26/2024	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-8	1/26/2024	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-9	1/26/2024	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-10	1/26/2024	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-11	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-12	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-13	1/26/2024	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Rider BRQ Federal Com 2H
(12.27.23)

County: Lea County, New Mexico

Description:

View West, area of CS-1 through CS-5.



Photograph No. 2

Facility: Rider BRQ Federal Com 2H
(12.27.23)

County: Lea County, New Mexico

Description:

View Southwest, area of CS-1 through CS-4.



Photograph No. 3

Facility: Rider BRQ Federal Com 2H
(12.27.23)

County: Lea County, New Mexico

Description:

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



APPENDIX C

CARMONA RESOURCES



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

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

QUESTIONS

Action 298917

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298917
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Rider BRQ Federal Com 2H
Date Release Discovered	12/27/2023
Surface Owner	Federal

Incident Details <i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	Yes
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	Cause: Other Other (Specify) Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 298917

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298917
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More volume information must be supplied to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

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

ACKNOWLEDGMENTS

Action 298917

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298917
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

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

CONDITIONS

Action 298917

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 298917
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jlaire	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	1/2/2024

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 307195

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307195
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400243867
Incident Name	NAPP2400243867 RIDER BRQ FEDERAL COM 2H @ 30-025-40558
Incident Type	Oil Release
Incident Status	Notification Accepted
Incident Well	[30-025-40558] RIDER BRQ FEDERAL COM #002H

Location of Release Source	
Site Name	Rider BRQ Federal Com 2H
Date Release Discovered	12/27/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	770
What is the estimated number of samples that will be gathered	18
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/26/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Jose Morles (432) 640-9794
Please provide any information necessary for navigation to sampling site	From the intersection of NM128 and Battle Axe Rd, travel South on Battle Axe Rd for 5.50 miles. Turn R onto an unnamed lease road and travel E on the lease road for 1.95 miles. Turn L onto the pad and arrive on location.

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

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

CONDITIONS

Action 307195

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307195
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jlaire	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.	1/24/2024

APPENDIX D

CARMONA RESOURCES



Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 1.13 Miles
- 1.34 Miles
- 1.37 Miles
- 1.79 Miles
- NMSEO Water Well
- Rider BRQ Federal Com 2H (12.27.2023)
- USGS Water Well

135' - Drilled 1917

174.06' - Drilled 2013

230' - Drilled 1949

Rider BRQ Federal Com 2H (12.27.2023)

300' - Drilled 1949

1 mi

N

Low Karst

COG Operating

Legend

- Low
- Rider BRQ Federal Com 2H (12.27.2023)

Rider BRQ Federal Com 2H (12.27.2023)



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 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 02299	CUB	LE		4	2	4	24	25S	34E	649517	3554125	1820	350	300	50
C 02314	CUB	LE		2	4	2	15	25S	34E	646116	3556179	2180	175	135	40
C 02315	CUB	LE		2	4	2	15	25S	34E	646095	3556194	2206	175	135	40
C 02296	CUB	LE		3	4	2	18	25S	35E	650846	3556088	2874	300	230	70

Average Depth to Water: **200 feet**

Minimum Depth: **135 feet**

Maximum Depth: **300 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 648093

Northing (Y): 3555259

Radius: 4000

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.

1/3/24 7:11 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
	C 02299	4	2	4	24	25S	34E	649517	3554125				
<hr/>													
Driller License: 122		Driller Company:				UNKNOWN							
Driller Name:		UNKNOWN											
Drill Start Date:		Drill Finish Date:				12/31/1949		Plug Date:					
Log File Date:		PCW Rcv Date:						Source:					
Pump Type:		Pipe Discharge Size:						Estimated Yield: 3 GPM					
Casing Size: 8.00		Depth Well:				350 feet		Depth Water: 300 feet					
<hr/>													


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.

1/3/24 7:13 AM

POINT OF DIVERSION SUMMARY

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

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320738103270501

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

USGS 320738103270501 25S.34E.15.24234

Lea County, New Mexico
Latitude 32°07'57.1", Longitude 103°27'02.4" NAD83
Land-surface elevation 3,345.00 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1954-07-23			D 62610		3180.06	NGVD29	P		Z	
1954-07-23			D 62611		3181.62	NAVD88	P		Z	
1954-07-23			D 72019	164.94			P		Z	
1970-12-08			D 62610		3181.78	NGVD29	P		Z	
1970-12-08			D 62611		3183.34	NAVD88	P		Z	
1970-12-08			D 72019	163.22			P		Z	
1976-01-15			D 62610		3179.20	NGVD29	1		Z	
1976-01-15			D 62611		3180.76	NAVD88	1		Z	
1976-01-15			D 72019	165.80			1		Z	
1981-03-25			D 62610		3182.20	NGVD29	1		Z	
1981-03-25			D 62611		3183.76	NAVD88	1		Z	
1981-03-25			D 72019	162.80			1		Z	
1986-03-12			D 62610		3184.76	NGVD29	1		Z	
1986-03-12			D 62611		3186.32	NAVD88	1		Z	
1986-03-12			D 72019	160.24			1		Z	

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1991-06-05		D	62610	3179.90	NGVD29	1	Z
1991-06-05		D	62611	3181.46	NAVD88	1	Z
1991-06-05		D	72019	165.10		1	Z
2013-01-16	21:30 UTC	m	62610	3170.94	NGVD29	P	S USGS
2013-01-16	21:30 UTC	m	62611	3172.50	NAVD88	P	S USGS
2013-01-16	21:30 UTC	m	72019	174.06		P	S USGS

Explanation

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

[Questions or Comments](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320738103270501&agency_cd=USGS&format=html

Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2024-01-03 09:20:21 EST


0.29 0.24 nadww02





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)								(NAD83 UTM in meters)	
		(quarters are smallest to largest)									
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	C 02314	2	4	2	15	25S	34E	646116	3556179		
x											
Driller License:		Driller Company:									
Driller Name:		UNKNOWN									
Drill Start Date:		01/01/1918		Drill Finish Date:			12/31/1917		Plug Date:		
Log File Date:		PCW Rcv Date:			Source:						
Pump Type:		Pipe Discharge Size:			Estimated Yield: 40 GPM						
Casing Size:		8.63		Depth Well:			175 feet		Depth Water:		135 feet
x											

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.

1/3/24 7:18 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

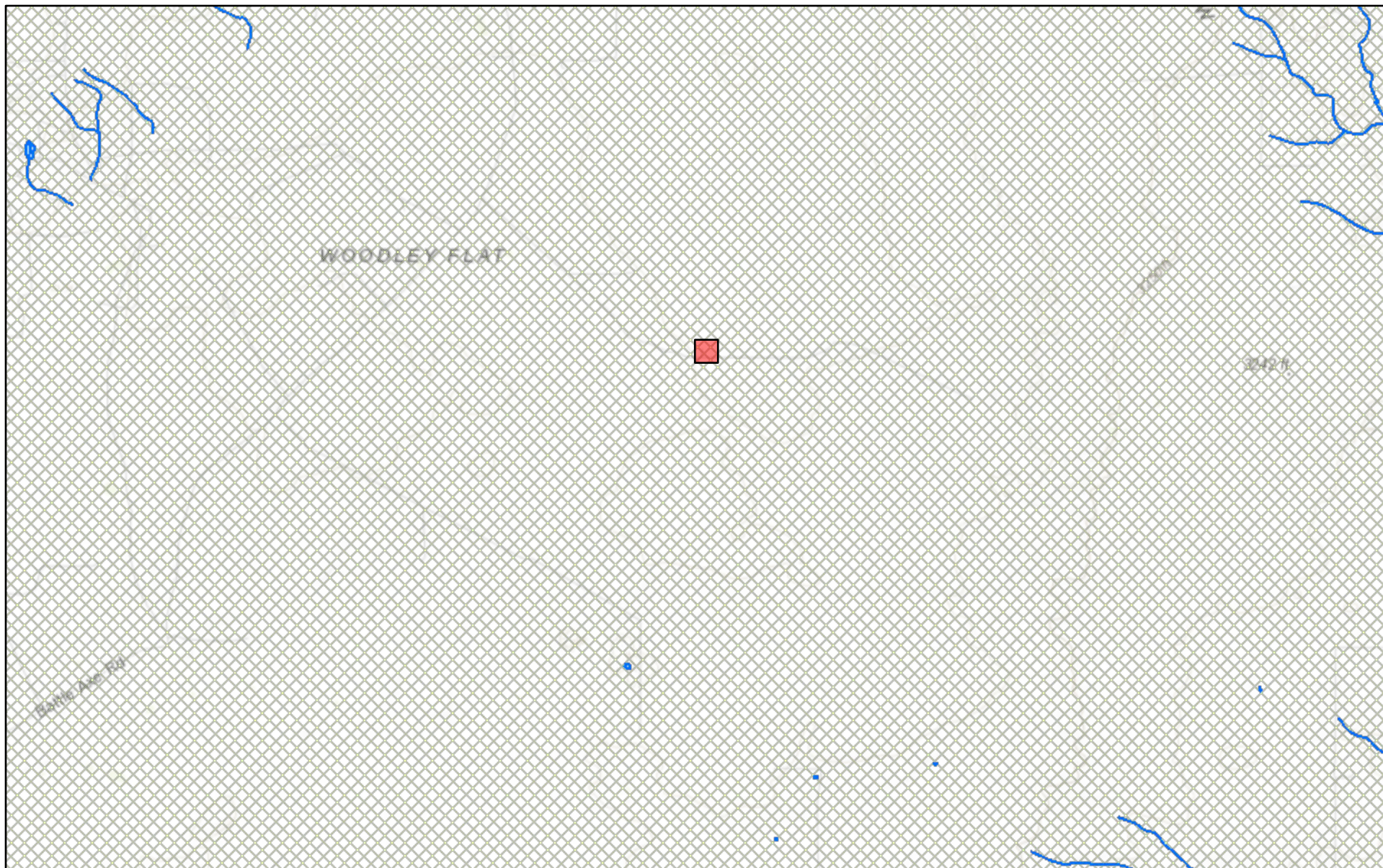
		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
	C 02296	3	4	2	18	25S	35E	650846	3556088				
<hr/>													
Driller License: 122		Driller Company:				UNKNOWN							
Driller Name:		UNKNOWN											
Drill Start Date:		Drill Finish Date:				12/31/1949		Plug Date:					
Log File Date:		PCW Rcv Date:				Source:							
Pump Type:		Pipe Discharge Size:				Estimated Yield: 4 GPM							
Casing Size: 8.00		Depth Well:				300 feet		Depth Water:				230 feet	
<hr/>													

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.

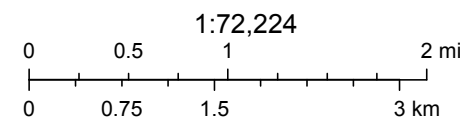
1/3/24 7:17 AM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



January 3, 2024



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

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

APPENDIX E

CARMONA RESOURCES





Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/15/2024 2:33:32 PM

JOB DESCRIPTION

Rider BRQ Federal #2H (12.27.23)
Lea County, New Mexico

JOB NUMBER

880-37828-1

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
1/15/2024 2:33:32 PM

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

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Laboratory Job ID: 880-37828-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1

Job ID: 880-37828-1

Eurofins Midland

Job Narrative 880-37828-1

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 1/11/2024 11:22 AM. 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 -6.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-37828-1), H-2 (0-0.5') (880-37828-2), H-3 (0-0.5') (880-37828-3) and H-4 (0-0.5') (880-37828-4).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70626 recovered under the lower control limit for Benzene and Toluene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-70640 and analytical batch 880-70626 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-2 (0-0.5') (880-37828-2) and H-4 (0-0.5') (880-37828-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70655 and analytical batch 880-70619 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70655/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-3 (0-0.5') (880-37828-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis 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.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37828-1

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 00:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/12/24 00:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/12/24 00:23	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396		mg/Kg		01/11/24 12:30	01/12/24 00:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/12/24 00:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/11/24 12:30	01/12/24 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/11/24 12:30	01/12/24 00:23	1
1,4-Difluorobenzene (Surr)	73		70 - 130	01/11/24 12:30	01/12/24 00:23	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			01/12/24 00:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/12/24 00:36	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		01/11/24 15:24	01/12/24 00:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/11/24 15:24	01/12/24 00:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/11/24 15:24	01/12/24 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	01/11/24 15:24	01/12/24 00:36	1
o-Terphenyl	108		70 - 130	01/11/24 15:24	01/12/24 00:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/12/24 17:24	1

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

Lab Sample ID: 880-37828-2

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 00:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 00:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 00:43	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		01/11/24 12:30	01/12/24 00:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 00:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/11/24 12:30	01/12/24 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/11/24 12:30	01/12/24 00:43	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	01/11/24 12:30	01/12/24 00:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37828-2

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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			01/12/24 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	<50.1	U	50.1		mg/Kg			01/12/24 00:58	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		01/11/24 15:24	01/12/24 00:58	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/11/24 15:24	01/12/24 00:58	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/11/24 15:24	01/12/24 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				01/11/24 15:24	01/12/24 00:58	1
o-Terphenyl	125		70 - 130				01/11/24 15:24	01/12/24 00:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/12/24 17:45	1

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

Lab Sample ID: 880-37828-3

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 01:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/12/24 01:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/12/24 01:04	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		01/11/24 12:30	01/12/24 01:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/12/24 01:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/11/24 12:30	01/12/24 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				01/11/24 12:30	01/12/24 01:04	1
1,4-Difluorobenzene (Surr)	70		70 - 130				01/11/24 12:30	01/12/24 01:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/12/24 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	95.2		50.1		mg/Kg			01/12/24 01:20	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	<50.1	U	50.1		mg/Kg		01/11/24 15:24	01/12/24 01:20	1
Diesel Range Organics (Over C10-C28)	95.2		50.1		mg/Kg		01/11/24 15:24	01/12/24 01:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37828-3

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/11/24 15:24	01/12/24 01:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				01/11/24 15:24	01/12/24 01:20	1
o-Terphenyl	131	S1+	70 - 130				01/11/24 15:24	01/12/24 01:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.83		4.95		mg/Kg			01/12/24 17:52	1

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

Lab Sample ID: 880-37828-4

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 02:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/12/24 02:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/12/24 02:26	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399		mg/Kg		01/11/24 12:30	01/12/24 02:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/12/24 02:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/11/24 12:30	01/12/24 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				01/11/24 12:30	01/12/24 02:26	1
1,4-Difluorobenzene (Surr)	70		70 - 130				01/11/24 12:30	01/12/24 02:26	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			01/12/24 02:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	546		50.4		mg/Kg			01/12/24 01:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/11/24 15:24	01/12/24 01:43	1
Diesel Range Organics (Over C10-C28)	546		50.4		mg/Kg		01/11/24 15:24	01/12/24 01:43	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/11/24 15:24	01/12/24 01:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				01/11/24 15:24	01/12/24 01:43	1
o-Terphenyl	123		70 - 130				01/11/24 15:24	01/12/24 01:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/12/24 17:59	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-37828-1	H-1 (0-0.5')	90	73
880-37828-2	H-2 (0-0.5')	91	67 S1-
880-37828-3	H-3 (0-0.5')	93	70
880-37828-4	H-4 (0-0.5')	87	70
890-5939-A-1-B MS	Matrix Spike	125	107
890-5939-A-1-C MSD	Matrix Spike Duplicate	128	115
LCS 880-70640/1-A	Lab Control Sample	134 S1+	107
LCSD 880-70640/2-A	Lab Control Sample Dup	110	104
MB 880-70580/5-A	Method Blank	73	90
MB 880-70640/5-A	Method Blank	72	88
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)
880-37828-1	H-1 (0-0.5')	104	108
880-37828-2	H-2 (0-0.5')	116	125
880-37828-3	H-3 (0-0.5')	124	131 S1+
880-37828-4	H-4 (0-0.5')	119	123
890-5929-A-3-H MS	Matrix Spike	113	104
890-5929-A-3-I MSD	Matrix Spike Duplicate	115	106
LCS 880-70655/2-A	Lab Control Sample	130	141 S1+
LCSD 880-70655/3-A	Lab Control Sample Dup	99	113
MB 880-70655/1-A	Method Blank	133 S1+	155 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70580/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 70626							Prep Batch: 70580		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				01/10/24 14:02	01/11/24 11:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/10/24 14:02	01/11/24 11:00	1

Lab Sample ID: MB 880-70640/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 70626							Prep Batch: 70640		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130				01/11/24 12:30	01/11/24 21:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130				01/11/24 12:30	01/11/24 21:37	1

Lab Sample ID: LCS 880-70640/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 70626							Prep Batch: 70640		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1159		mg/Kg		116	70 - 130		
Toluene	0.100	0.1082		mg/Kg		108	70 - 130		
Ethylbenzene	0.100	0.1213		mg/Kg		121	70 - 130		
m-Xylene & p-Xylene	0.200	0.2613	*+	mg/Kg		131	70 - 130		
o-Xylene	0.100	0.1246		mg/Kg		125	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	107		70 - 130						

Lab Sample ID: LCSD 880-70640/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 70626							Prep Batch: 70640		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	10	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-70640/2-A

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70640

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08721		mg/Kg		87	70 - 130	22	35
Ethylbenzene	0.100	0.09701		mg/Kg		97	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130	28	35
o-Xylene	0.100	0.09543		mg/Kg		95	70 - 130	26	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-5939-A-1-B MS

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1109		mg/Kg		110	70 - 130
Toluene	<0.00202	U	0.101	0.1034		mg/Kg		103	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.1187		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	<0.00404	U *	0.202	0.2456		mg/Kg		122	70 - 130
o-Xylene	<0.00202	U	0.101	0.1158		mg/Kg		115	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-5939-A-1-C MSD

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0994	0.1048		mg/Kg		105	70 - 130	6	35
Toluene	<0.00202	U	0.0994	0.09392		mg/Kg		94	70 - 130	10	35
Ethylbenzene	<0.00202	U	0.0994	0.1074		mg/Kg		108	70 - 130	10	35
m-Xylene & p-Xylene	<0.00404	U *	0.199	0.2288		mg/Kg		115	70 - 130	7	35
o-Xylene	<0.00202	U	0.0994	0.1084		mg/Kg		109	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

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

Lab Sample ID: MB 880-70655/1-A

Matrix: Solid

Analysis Batch: 70619

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70655

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		01/11/24 13:50	01/11/24 20:57	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-70655/1-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70655

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		01/11/24 13:50	01/11/24 20:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/24 13:50	01/11/24 20:57	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	133	S1+	70 - 130				01/11/24 13:50	01/11/24 20:57	1
o-Terphenyl	155	S1+	70 - 130				01/11/24 13:50	01/11/24 20:57	1

Lab Sample ID: LCS 880-70655/2-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	815.7		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	986.4		mg/Kg		99	70 - 130
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
1-Chlorooctane	130		70 - 130				
o-Terphenyl	141	S1+	70 - 130				

Lab Sample ID: LCSD 880-70655/3-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	891.3		mg/Kg		89	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	968.6		mg/Kg		97	70 - 130	2	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	99		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 890-5929-A-3-H MS
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70655

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1297		mg/Kg		126	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	883.9		mg/Kg		85	70 - 130
Surrogate	MS MS		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	113		70 - 130						
o-Terphenyl	104		70 - 130						

QC Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-5929-A-3-I MSD

Matrix: Solid

Analysis Batch: 70619

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70655

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	<49.6	U	1010	1322		mg/Kg		128	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	908.2		mg/Kg		87	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	106		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70715/1-A

Matrix: Solid

Analysis Batch: 70752

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			01/12/24 17:03	1

Lab Sample ID: LCS 880-70715/2-A

Matrix: Solid

Analysis Batch: 70752

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Chloride	250	233.5		mg/Kg	-	93	90 - 110

Lab Sample ID: LCSD 880-70715/3-A

Matrix: Solid

Analysis Batch: 70752

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		Limits
Chloride	250	232.6		mg/kg	-	93	90 - 110	0	20

Lab Sample ID: 880-37828-1 MS

Matrix: Solid

Analysis Batch: 70752

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

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	<4.98	U	249	227.8		mg/Kg		90	90 - 110		

Lab Sample ID: 880-37828-1 MSD

Matrix: Solid

Analysis Batch: 70752

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride	<4.98	U	249	229.0		mg/Kg		90	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 70580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70580/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 70626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-1	H-1 (0-0.5')	Total/NA	Solid	8021B	70640
880-37828-2	H-2 (0-0.5')	Total/NA	Solid	8021B	70640
880-37828-3	H-3 (0-0.5')	Total/NA	Solid	8021B	70640
880-37828-4	H-4 (0-0.5')	Total/NA	Solid	8021B	70640
MB 880-70580/5-A	Method Blank	Total/NA	Solid	8021B	70580
MB 880-70640/5-A	Method Blank	Total/NA	Solid	8021B	70640
LCS 880-70640/1-A	Lab Control Sample	Total/NA	Solid	8021B	70640
LCSD 880-70640/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70640
890-5939-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	70640
890-5939-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70640

Prep Batch: 70640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-37828-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-37828-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-37828-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-70640/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70640/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70640/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5939-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-5939-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 70772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37828-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37828-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37828-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	70655
880-37828-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	70655
880-37828-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	70655
880-37828-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	70655
MB 880-70655/1-A	Method Blank	Total/NA	Solid	8015B NM	70655
LCS 880-70655/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70655
LCSD 880-70655/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70655
890-5929-A-3-H MS	Matrix Spike	Total/NA	Solid	8015B NM	70655
890-5929-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70655

Prep Batch: 70655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 70655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37828-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37828-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-70655/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70655/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70655/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5929-A-3-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5929-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-37828-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-37828-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-37828-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-37828-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-37828-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-37828-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-70715/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70715/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70715/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37828-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-37828-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 70752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37828-1	H-1 (0-0.5')	Soluble	Solid	300.0	70715
880-37828-2	H-2 (0-0.5')	Soluble	Solid	300.0	70715
880-37828-3	H-3 (0-0.5')	Soluble	Solid	300.0	70715
880-37828-4	H-4 (0-0.5')	Soluble	Solid	300.0	70715
MB 880-70715/1-A	Method Blank	Soluble	Solid	300.0	70715
LCS 880-70715/2-A	Lab Control Sample	Soluble	Solid	300.0	70715
LCSD 880-70715/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70715
880-37828-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	70715
880-37828-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	70715

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

Client Sample ID: H-1 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37828-1
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			5.05 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 00:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70772	01/12/24 00:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			70744	01/12/24 00:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 00:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 17:24	CH	EET MID

Client Sample ID: H-2 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37828-2
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			4.98 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70772	01/12/24 00:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			70744	01/12/24 00:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 00:58	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 17:45	CH	EET MID

Client Sample ID: H-3 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37828-3
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			4.99 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 01:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70772	01/12/24 01:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			70744	01/12/24 01:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 01:20	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 17:52	CH	EET MID

Client Sample ID: H-4 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37828-4
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	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 02:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70772	01/12/24 02:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

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

Date Collected: 01/08/24 00:00

Date Received: 01/11/24 11:22

Lab Sample ID: 880-37828-4

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			70744	01/12/24 01:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 01:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 17:59	CH	EET MID

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

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
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
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37828-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37828-1	H-1 (0-0.5')	Solid	01/08/24 00:00	01/11/24 11:22
880-37828-2	H-2 (0-0.5')	Solid	01/08/24 00:00	01/11/24 11:22
880-37828-3	H-3 (0-0.5')	Solid	01/08/24 00:00	01/11/24 11:22
880-37828-4	H-4 (0-0.5')	Solid	01/08/24 00:00	01/11/24 11:22

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

Chain of Custody

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


Program	UST/PTST	<input type="checkbox"/> PRR	<input type="checkbox"/> brownfields	<input type="checkbox"/> RRC	<input type="checkbox"/> uperfund	<input type="checkbox"/>
State of Project.						
Reporting Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/> PST/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV	<input type="checkbox"/>
Deliverables	EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other	<input type="checkbox"/>



880-37828 Chain of Custody

[illegible]

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1/11/22	Jamie	1/11/22
		VJW	11.22

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-37828-1
SDG Number: Lea County, New Mexico

Login Number: 37828
List Number: 1
Creator: Rodriguez, Leticia

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

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/15/2024 2:33:32 PM

JOB DESCRIPTION

Rider BRQ Federal #2H (12.27.23)
Lea County, New Mexico

JOB NUMBER

880-37829-1

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
1/15/2024 2:33:32 PM

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

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Laboratory Job ID: 880-37829-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1

Job ID: 880-37829-1

Eurofins Midland

Job Narrative 880-37829-1

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 1/11/2024 11:22 AM. 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 -6.0°C

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70626 recovered under the lower control limit for Benzene and Toluene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-70640 and analytical batch 880-70626 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (1') (880-37829-5) and S-3 (0-0.5') (880-37829-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70655 and analytical batch 880-70619 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70655/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-0.5') (880-37829-1), S-1 (1.5') (880-37829-3) and S-2 (0-0.5') (880-37829-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis 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.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-37829-1

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 02:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/12/24 02:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/12/24 02:47	1
m-Xylene & p-Xylene	<0.00397	U *	0.00397		mg/Kg		01/11/24 12:30	01/12/24 02:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/11/24 12:30	01/12/24 02:47	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/11/24 12:30	01/12/24 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/11/24 12:30	01/12/24 02:47	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/11/24 12:30	01/12/24 02:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/12/24 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	168		49.8		mg/Kg			01/12/24 02:05	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		01/11/24 15:24	01/12/24 02:05	1
Diesel Range Organics (Over C10-C28)	168		49.8		mg/Kg		01/11/24 15:24	01/12/24 02:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/11/24 15:24	01/12/24 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130	01/11/24 15:24	01/12/24 02:05	1
o-Terphenyl	155	S1+	70 - 130	01/11/24 15:24	01/12/24 02:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.30		5.04		mg/Kg			01/12/24 18:06	1

Client Sample ID: S-1 (1')

Lab Sample ID: 880-37829-2

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 03:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 03:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 03:07	1
m-Xylene & p-Xylene	<0.00402	U *	0.00402		mg/Kg		01/11/24 12:30	01/12/24 03:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 03:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/11/24 12:30	01/12/24 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/11/24 12:30	01/12/24 03:07	1
1,4-Difluorobenzene (Surr)	80		70 - 130	01/11/24 12:30	01/12/24 03:07	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1')

Lab Sample ID: 880-37829-2

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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			01/12/24 03:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.0		49.9		mg/Kg			01/12/24 02:48	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	<49.9	U	49.9		mg/Kg		01/11/24 15:24	01/12/24 02:48	1
Diesel Range Organics (Over C10-C28)	62.0		49.9		mg/Kg		01/11/24 15:24	01/12/24 02:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/24 15:24	01/12/24 02:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				01/11/24 15:24	01/12/24 02:48	1
o-Terphenyl	121		70 - 130				01/11/24 15:24	01/12/24 02:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/12/24 18:27	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-37829-3

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 03:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/11/24 12:30	01/12/24 03:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/11/24 12:30	01/12/24 03:28	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		01/11/24 12:30	01/12/24 03:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/11/24 12:30	01/12/24 03:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/11/24 12:30	01/12/24 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				01/11/24 12:30	01/12/24 03:28	1
1,4-Difluorobenzene (Surr)	80		70 - 130				01/11/24 12:30	01/12/24 03:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/12/24 03:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.2		49.9		mg/Kg			01/12/24 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/11/24 15:24	01/12/24 03:11	1
Diesel Range Organics (Over C10-C28)	59.2		49.9		mg/Kg		01/11/24 15:24	01/12/24 03:11	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-37829-3

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 15:24	01/12/24 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				01/11/24 15:24	01/12/24 03:11	1
o-Terphenyl	145	S1+	70 - 130				01/11/24 15:24	01/12/24 03:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.98		4.96		mg/Kg			01/12/24 18:34	1

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

Lab Sample ID: 880-37829-4

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 03:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/11/24 12:30	01/12/24 03:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/24 12:30	01/12/24 03:48	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		01/11/24 12:30	01/12/24 03:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/24 12:30	01/12/24 03:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/11/24 12:30	01/12/24 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				01/11/24 12:30	01/12/24 03:48	1
1,4-Difluorobenzene (Surr)	72		70 - 130				01/11/24 12:30	01/12/24 03:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/12/24 03:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	228		50.0		mg/Kg			01/12/24 03:33	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	<50.0	U	50.0		mg/Kg		01/11/24 15:24	01/12/24 03:33	1
Diesel Range Organics (Over C10-C28)	228		50.0		mg/Kg		01/11/24 15:24	01/12/24 03:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/24 15:24	01/12/24 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				01/11/24 15:24	01/12/24 03:33	1
o-Terphenyl	147	S1+	70 - 130				01/11/24 15:24	01/12/24 03:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.86		4.97		mg/Kg			01/12/24 18:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1')

Lab Sample ID: 880-37829-5

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 04:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/11/24 12:30	01/12/24 04:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/24 12:30	01/12/24 04:09	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		01/11/24 12:30	01/12/24 04:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/24 12:30	01/12/24 04:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/11/24 12:30	01/12/24 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	01/11/24 12:30	01/12/24 04:09	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	01/11/24 12:30	01/12/24 04:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/12/24 04:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	482		50.1		mg/Kg			01/12/24 03:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/11/24 15:24	01/12/24 03:55	1
Diesel Range Organics (Over C10-C28)	482		50.1		mg/Kg		01/11/24 15:24	01/12/24 03:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/11/24 15:24	01/12/24 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	01/11/24 15:24	01/12/24 03:55	1
o-Terphenyl	129		70 - 130	01/11/24 15:24	01/12/24 03:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.7		5.05		mg/Kg			01/12/24 18:48	1

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

Lab Sample ID: 880-37829-6

Date Collected: 01/08/24 00:00

Matrix: Solid

Date Received: 01/11/24 11:22

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		01/11/24 12:30	01/12/24 04:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 04:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 04:29	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		01/11/24 12:30	01/12/24 04:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/11/24 12:30	01/12/24 04:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/11/24 12:30	01/12/24 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	01/11/24 12:30	01/12/24 04:29	1
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130	01/11/24 12:30	01/12/24 04:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37829-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/12/24 04:29	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	108		50.3		mg/Kg			01/12/24 04:18	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		01/11/24 15:24	01/12/24 04:18	1	
Diesel Range Organics (Over C10-C28)	108		50.3		mg/Kg		01/11/24 15:24	01/12/24 04:18	1	
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/11/24 15:24	01/12/24 04:18	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	120		70 - 130				01/11/24 15:24	01/12/24 04:18	1	
o-Terphenyl	126		70 - 130				01/11/24 15:24	01/12/24 04:18	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	5.22		5.02		mg/Kg			01/12/24 18:55	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-37829-1	S-1 (0-0.5')	93	78
880-37829-2	S-1 (1')	92	80
880-37829-3	S-1 (1.5')	90	80
880-37829-4	S-2 (0-0.5')	90	72
880-37829-5	S-2 (1')	85	67 S1-
880-37829-6	S-3 (0-0.5')	85	53 S1-
890-5939-A-1-B MS	Matrix Spike	125	107
890-5939-A-1-C MSD	Matrix Spike Duplicate	128	115
LCS 880-70640/1-A	Lab Control Sample	134 S1+	107
LCSD 880-70640/2-A	Lab Control Sample Dup	110	104
MB 880-70580/5-A	Method Blank	73	90
MB 880-70640/5-A	Method Blank	72	88
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)
880-37829-1	S-1 (0-0.5')	147 S1+	155 S1+
880-37829-2	S-1 (1')	114	121
880-37829-3	S-1 (1.5')	136 S1+	145 S1+
880-37829-4	S-2 (0-0.5')	143 S1+	147 S1+
880-37829-5	S-2 (1')	125	129
880-37829-6	S-3 (0-0.5')	120	126
890-5929-A-3-H MS	Matrix Spike	113	104
890-5929-A-3-I MSD	Matrix Spike Duplicate	115	106
LCS 880-70655/2-A	Lab Control Sample	130	141 S1+
LCSD 880-70655/3-A	Lab Control Sample Dup	99	113
MB 880-70655/1-A	Method Blank	133 S1+	155 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70580/5-A

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/24 14:02	01/11/24 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	01/10/24 14:02	01/11/24 11:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/10/24 14:02	01/11/24 11:00	1

Lab Sample ID: MB 880-70640/5-A

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/24 12:30	01/11/24 21:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/11/24 12:30	01/11/24 21:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	01/11/24 12:30	01/11/24 21:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/11/24 12:30	01/11/24 21:37	1

Lab Sample ID: LCS 880-70640/1-A

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1159		mg/Kg		116	70 - 130
Toluene	0.100	0.1082		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1213		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2613	*+	mg/Kg		131	70 - 130
o-Xylene	0.100	0.1246		mg/Kg		125	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-70640/2-A

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70640

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	10	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-70640/2-A

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70640

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.08721		mg/Kg		87	70 - 130	22		35
Ethylbenzene	0.100	0.09701		mg/Kg		97	70 - 130	22		35
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130	28		35
o-Xylene	0.100	0.09543		mg/Kg		95	70 - 130	26		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-5939-A-1-B MS

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00202	U	0.101	0.1109		mg/Kg		110	70 - 130	
Toluene	<0.00202	U	0.101	0.1034		mg/Kg		103	70 - 130	
Ethylbenzene	<0.00202	U	0.101	0.1187		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	<0.00404	U *	0.202	0.2456		mg/Kg		122	70 - 130	
o-Xylene	<0.00202	U	0.101	0.1158		mg/Kg		115	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-5939-A-1-C MSD

Matrix: Solid

Analysis Batch: 70626

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00202	U	0.0994	0.1048		mg/Kg		105	70 - 130	6		35
Toluene	<0.00202	U	0.0994	0.09392		mg/Kg		94	70 - 130	10		35
Ethylbenzene	<0.00202	U	0.0994	0.1074		mg/Kg		108	70 - 130	10		35
m-Xylene & p-Xylene	<0.00404	U *	0.199	0.2288		mg/Kg		115	70 - 130	7		35
o-Xylene	<0.00202	U	0.0994	0.1084		mg/Kg		109	70 - 130	7		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

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

Lab Sample ID: MB 880-70655/1-A

Matrix: Solid

Analysis Batch: 70619

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70655

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		01/11/24 13:50	01/11/24 20:57	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-70655/1-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70655

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		01/11/24 13:50	01/11/24 20:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/24 13:50	01/11/24 20:57	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	133	S1+	70 - 130				01/11/24 13:50	01/11/24 20:57	1
o-Terphenyl	155	S1+	70 - 130				01/11/24 13:50	01/11/24 20:57	1

Lab Sample ID: LCS 880-70655/2-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	815.7		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	986.4		mg/Kg		99	70 - 130		
Surrogate		LCS	LCS				Limits		
		%Recovery	Qualifier						
1-Chlorooctane		130					70 - 130		
o-Terphenyl		141	S1+				70 - 130		

Lab Sample ID: LCSD 880-70655/3-A
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	891.3		mg/Kg		89	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	968.6		mg/Kg		97	70 - 130	2	20
Surrogate		LCSD	LCSD				Limits		
		%Recovery	Qualifier						
1-Chlorooctane		99					70 - 130		
o-Terphenyl		113					70 - 130		

Lab Sample ID: 890-5929-A-3-H MS
Matrix: Solid
Analysis Batch: 70619

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70655

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1297		mg/Kg		126	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	883.9		mg/Kg		85	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	113		70 - 130								
o-Terphenyl	104		70 - 130								

QC Sample Results

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-5929-A-3-I MSD

Matrix: Solid

Analysis Batch: 70619

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70655

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1322		mg/Kg	-	128	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	908.2		mg/Kg		87	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	106		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70715/1-A

Matrix: Solid

Analysis Batch: 70752

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			01/12/24 17:03	1

Lab Sample ID: LCS 880-70715/2-A

Matrix: Solid

Analysis Batch: 70752

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.5		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-70715/3-A

Matrix: Solid

Analysis Batch: 70752

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCS	LCS				%Rec			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride			250	232.6		mg/Kg		93	90 - 110	0	20	

Lab Sample ID: 880-37828-A-1-D MS

Matrix: Solid

Analysis Batch: 70752

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Chloride	<4.98	U	249	227.8		mg/Ka		90	90 - 110		

Lab Sample ID: 880-37828-A-1-E MSD

Matrix: Solid

Analysis Batch: 70752

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	<4.98	U	249	229.0		mg/Kg		90	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 70580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70580/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 70626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-1	S-1 (0-0.5')	Total/NA	Solid	8021B	70640
880-37829-2	S-1 (1')	Total/NA	Solid	8021B	70640
880-37829-3	S-1 (1.5')	Total/NA	Solid	8021B	70640
880-37829-4	S-2 (0-0.5')	Total/NA	Solid	8021B	70640
880-37829-5	S-2 (1')	Total/NA	Solid	8021B	70640
880-37829-6	S-3 (0-0.5')	Total/NA	Solid	8021B	70640
MB 880-70580/5-A	Method Blank	Total/NA	Solid	8021B	70580
MB 880-70640/5-A	Method Blank	Total/NA	Solid	8021B	70640
LCS 880-70640/1-A	Lab Control Sample	Total/NA	Solid	8021B	70640
LCSD 880-70640/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70640
890-5939-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	70640
890-5939-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70640

Prep Batch: 70640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-37829-2	S-1 (1')	Total/NA	Solid	5035	
880-37829-3	S-1 (1.5')	Total/NA	Solid	5035	
880-37829-4	S-2 (0-0.5')	Total/NA	Solid	5035	
880-37829-5	S-2 (1')	Total/NA	Solid	5035	
880-37829-6	S-3 (0-0.5')	Total/NA	Solid	5035	
MB 880-70640/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70640/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70640/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5939-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-5939-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 70773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37829-2	S-1 (1')	Total/NA	Solid	Total BTEX	
880-37829-3	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-37829-4	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37829-5	S-2 (1')	Total/NA	Solid	Total BTEX	
880-37829-6	S-3 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	70655
880-37829-2	S-1 (1')	Total/NA	Solid	8015B NM	70655
880-37829-3	S-1 (1.5')	Total/NA	Solid	8015B NM	70655
880-37829-4	S-2 (0-0.5')	Total/NA	Solid	8015B NM	70655
880-37829-5	S-2 (1')	Total/NA	Solid	8015B NM	70655
880-37829-6	S-3 (0-0.5')	Total/NA	Solid	8015B NM	70655
MB 880-70655/1-A	Method Blank	Total/NA	Solid	8015B NM	70655

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 70619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-70655/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70655
LCSD 880-70655/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70655
890-5929-A-3-H MS	Matrix Spike	Total/NA	Solid	8015B NM	70655
890-5929-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70655

Prep Batch: 70655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37829-2	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-37829-3	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-37829-4	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37829-5	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-37829-6	S-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-70655/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70655/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70655/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5929-A-3-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5929-A-3-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-37829-2	S-1 (1')	Total/NA	Solid	8015 NM	
880-37829-3	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-37829-4	S-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-37829-5	S-2 (1')	Total/NA	Solid	8015 NM	
880-37829-6	S-3 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-37829-2	S-1 (1')	Soluble	Solid	DI Leach	
880-37829-3	S-1 (1.5')	Soluble	Solid	DI Leach	
880-37829-4	S-2 (0-0.5')	Soluble	Solid	DI Leach	
880-37829-5	S-2 (1')	Soluble	Solid	DI Leach	
880-37829-6	S-3 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-70715/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70715/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70715/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37828-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-37828-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 70752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-1	S-1 (0-0.5')	Soluble	Solid	300.0	70715
880-37829-2	S-1 (1')	Soluble	Solid	300.0	70715
880-37829-3	S-1 (1.5')	Soluble	Solid	300.0	70715
880-37829-4	S-2 (0-0.5')	Soluble	Solid	300.0	70715
880-37829-5	S-2 (1')	Soluble	Solid	300.0	70715

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 70752 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37829-6	S-3 (0-0.5')	Soluble	Solid	300.0	70715
MB 880-70715/1-A	Method Blank	Soluble	Solid	300.0	70715
LCS 880-70715/2-A	Lab Control Sample	Soluble	Solid	300.0	70715
LCSD 880-70715/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70715
880-37828-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	70715
880-37828-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70715

Lab Chronicle

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37829-1
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			5.04 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 02:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70773	01/12/24 02:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			70745	01/12/24 02:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 02:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 18:06	CH	EET MID

Client Sample ID: S-1 (1')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37829-2
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			4.97 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 03:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70773	01/12/24 03:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			70745	01/12/24 02:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 02:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 18:27	CH	EET MID

Client Sample ID: S-1 (1.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37829-3
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			4.96 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70773	01/12/24 03:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			70745	01/12/24 03:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 03:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 18:34	CH	EET MID

Client Sample ID: S-2 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37829-4
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			5.03 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 03:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70773	01/12/24 03:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37829-4
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			70745	01/12/24 03:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 03:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 18:41	CH	EET MID

Client Sample ID: S-2 (1')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37829-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 04:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70773	01/12/24 04:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			70745	01/12/24 03:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 03:55	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 18:48	CH	EET MID

Client Sample ID: S-3 (0-0.5')
Date Collected: 01/08/24 00:00
Date Received: 01/11/24 11:22

Lab Sample ID: 880-37829-6
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			4.98 g	5 mL	70640	01/11/24 12:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/12/24 04:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70773	01/12/24 04:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			70745	01/12/24 04:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70655	01/11/24 15:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70619	01/12/24 04:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70715	01/12/24 08:06	CH	EET MID
Soluble	Analysis	300.0		1			70752	01/12/24 18:55	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: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
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: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Rider BRQ Federal #2H (12.27.23)

Job ID: 880-37829-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37829-1	S-1 (0-0.5')	Solid	01/08/24 00:00	01/11/24 11:22
880-37829-2	S-1 (1')	Solid	01/08/24 00:00	01/11/24 11:22
880-37829-3	S-1 (1.5')	Solid	01/08/24 00:00	01/11/24 11:22
880-37829-4	S-2 (0-0.5')	Solid	01/08/24 00:00	01/11/24 11:22
880-37829-5	S-2 (1')	Solid	01/08/24 00:00	01/11/24 11:22
880-37829-6	S-3 (0-0.5')	Solid	01/08/24 00:00	01/11/24 11:22

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

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

Chain of Custody

W



880-37829 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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other	

Project Name.		Rider BRQ Federal #2H (12.27.23)		Turn Around			Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number	2228	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Due Date	72 HR	None NO		DI Water H ₂ O													
Project Location	Lea County, New Mexico			Due Date		Cool Cool	MeOH Me														
Sampler's Name	JM			Due Date		HCL, HC	HNO ₃ HN														
PO #:				Due Date		H ₂ SO ₄ , H ₂	NaOH Na														
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	H ₃ PO ₄ , HP														
	Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NaHSO ₄ , NABIS														
	Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Na ₂ S ₂ O ₃ , NaSO ₃														
	Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Zn Acetate+NaOH Zn														
	Total Containers:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NaOH+Ascorbic Acid SAPC														
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments														
S-1 (0-0.5')	1/8/2024		X		G	1	X	X	X												
S-1 (1')	1/8/2024		X		G	1	X	X	X												
S-1 (1.5')	1/8/2024		X		G	1	X	X	X												
S-2 (0-0.5')	1/8/2024		X		G	1	X	X	X												
S-2 (1')	1/8/2024		X		G	1	X	X	X												
S-3 (0-0.5')	1/8/2024		X		G	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
	1/11/24		1/11/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-37829-1
SDG Number: Lea County, New Mexico

Login Number: 37829
List Number: 1
Creator: Rodriguez, Leticia

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	



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

January 30, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: RIDER BRQ FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 4 (0-0.5') (H240398-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	251	126	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

H24039



Page 4 of 4

Project Manager:	Conner Moehring	Bill to: (if different)	Camrona Resources
Company Name:	Camrona 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:	mcamrona@camronaresources.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> <input type="checkbox"/> perfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	1/29/24 11:50		1/29/24



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

January 30, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: RIDER BRQ FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: CS - 1 (1') (H240397-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: CS - 2 (1') (H240397-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: CS - 3 (2') (H240397-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: CS - 4 (2') (H240397-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: CS - 5 (1') (H240397-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 1 (1') (H240397-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 57.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 51.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/29/2024	Sampling Date:	01/26/2024
Reported:	01/30/2024	Sampling Type:	Soil
Project Name:	RIDER BRQ FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	2228	Sample Received By:	Dionica Hinojos
Project Location:	LEA CO., NEW MEXICO		

Sample ID: SW - 2 (1') (H240397-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEx	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 3 (1') (H240397-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 55.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 49.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/29/2024	Sampling Date:	01/26/2024
Reported:	01/30/2024	Sampling Type:	Soil
Project Name:	RIDER BRQ FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	2228	Sample Received By:	Dionica Hinojos
Project Location:	LEA CO., NEW MEXICO		

Sample ID: SW - 4 (1') (H240397-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 63.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 5 (2') (H240397-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.22	111	2.00	2.14		
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 6 (1') (H240397-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 7 (2') (H240397-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 8 (2') (H240397-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 9 (2') (H240397-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234		
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 10 (2') (H240397-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 11 (1') (H240397-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 12 (1') (H240397-17)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/29/2024
 Reported: 01/30/2024
 Project Name: RIDER BRQ FEDERAL #2
 Project Number: 2228
 Project Location: LEA CO., NEW MEXICO

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 13 (1') (H240397-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.26	113	2.00	0.00234	
Toluene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	0.000523	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.153	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.85	114	6.00	0.306	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H24639

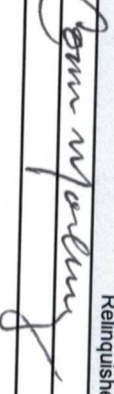

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> perfund	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Rider BRQ Federal #2	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes				
Project Number:	2228															None: NO	DI Water: H ₂ O		
Project Location:	Lea County, New Mexico	Due Date:	24 HR													Cool: Cool	MeOH: Me		
Sampler's Name:	JM															HCL: HC	HNO ₃ : HN		
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140																
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:																	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	-1.5°C																
Total Containers:	19	Corrected Temperature:																	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH 80										NaOH+Ascorbic Acid: SAPC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	1/24/24 1630		1/29/24

Chain of Custody

Work Order No: H24034

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Rider BRQ Federal #2	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pras. Code	ANALYSIS REQUEST												Preservative Codes						
Project Number:	2228																None: NO	DI Water: H ₂ O					
Project Location:	Lea County, New Mexico	Due Date:	24 HR														Cool: Cool	MeOH: Me					
Sampler's Name:	JM																HCL: HC	HNO ₃ : HN					
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na					
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters															
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:						BTEX 8021B									NaHSO ₄ : NABIS						
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:						TPH 8015M (GRO + DRO + MRO)									Na ₂ S ₂ O ₃ : NaSO ₃						
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:						Chloride 4500									Zn Acetate+NaOH: Zn						
Total Containers:	19	Corrected Temperature:															NaOH+Ascorbic Acid: SAPC						
Sample Identification				Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
SW-6 (1')	1/26/2024		X	Comp	1	X	X	X	X														
SW-7 (2')	1/26/2024		X	Comp	1	X	X	X	X														
SW-8 (2')	1/26/2024		X	Comp	1	X	X	X	X														
SW-9 (2')	1/26/2024		X	Comp	1	X	X	X	X														
SW-10 (2')	1/26/2024		X	Comp	1	X	X	X	X														
SW-11 (1')	1/26/2024		X	Comp	1	X	X	X	X														
SW-12 (1')	1/26/2024		X	Comp	1	X	X	X	X														
SW-13 (1')	1/26/2024		X	Comp	1	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>	1/26/24 1030	<i>[Signature]</i>	1/26/24

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

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

QUESTIONS

Action 311719

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 311719
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400243867
Incident Name	NAPP2400243867 RIDER BRQ FEDERAL COM 2H @ 30-025-40558
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-40558] RIDER BRQ FEDERAL COM #002H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RIDER BRQ FEDERAL COM 2H
Date Release Discovered	12/27/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other Other (Specify) Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 311719

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	311719
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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: 02/06/2024
--	---

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 311719

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	311719
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	32
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	482
GRO+DRO	(EPA SW-846 Method 8015M)	482
BTEX	(EPA SW-846 Method 8021B or 8260B)	403
Benzene	(EPA SW-846 Method 8021B or 8260B)	202

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	01/24/2024
On what date will (or did) the final sampling or liner inspection occur	01/26/2024
On what date will (or was) the remediation complete(d)	01/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	100
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	660
What is the estimated volume (in cubic yards) that will be remediated	80

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.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 311719

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 311719
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Rider BRQ Fed Com 2 Rt Bty [fAPP2203857398]
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	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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: 02/06/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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

QUESTIONS, Page 5

Action 311719

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	311719
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 311719

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	311719
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	307195
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/26/2024
What was the (estimated) number of samples that were to be gathered	18
What was the sampling surface area in square feet	770

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	660
What was the total volume (cubic yards) remediated	80
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	100
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	none

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: 02/06/2024
--	---

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

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

QUESTIONS, Page 7

Action 311719

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 311719
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

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

CONDITIONS

Action 311719

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 311719
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	4/8/2024