

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Crescent Hale 10 Fed 3H
Incident ID: NAB1907044557
Eddy County, New Mexico
Unit K Sec 11 T19S R30E
32.673689°, -103.944767°

Produced Water Release
Point of Release: Equipment Failure
Release Date: 1/25/2019
Volume Released: 20 Barrels of Produced Water
Volume Recovered: 10 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Cimarex Energy Co. of Colorado
600 N. Marienfeld Street
Suite 600
Midland, Texas 79701

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

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



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 CONCLUSION

FIGURES

FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION FIGURE 4 EXCAVATION

APPENDICES

APPENDIX A TABLES

APPENDIX B PHOTOS

APPENDIX C INITIAL C-141 AND FINAL/NMOCD CORRESPONDENCE

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS

February 3, 2023

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

Re: Closure Report
Crescent Hale 10 Fed 3H
Cimarex Energy Co. of Colorado
Site Location: Unit K, S11, T19S, R30E
(Lat 32.67381°, Long -103.94470°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for Crescent Hale 10 Fed 3H. The site is located at 32.67381°, -103.94470° within Unit K, S11, T19S, R30E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on January 25, 2019, caused by equipment failure of the fill lines being closed. It resulted in approximately twenty (20) barrels of produced water being released. There were ten (10) barrels of produced water recovered. The impacted area is located on the pad and the pasture and is 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 high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.75 miles Southwest of the site in S15, T19S, R30E, and was drilled in 1982. The well has a reported depth to groundwater of 92' feet below the ground surface (ft bgs). A copy of the groundwater determination bore log 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

On November 29, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, four (4) sample points and six (6) horizontal sample points were advanced to depths ranging from the surface to 3' bgs inside the area of concern. See Figure 3



for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on January 10, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-2 was excavated to a depth of 2' below the surface, and the areas of S-3 through S-4 were excavated to a depth of 4' below the surface to remove all the impacted soils. A total of eight (8) floor confirmation samples were collected (CS-1 through CS-8), and seven (7) sidewall samples (SW-1 through SW-7) 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.

The areas of samples (CS-2, SW-1, SW-4, and SW-6) showed high TPH concentrations ranging from 101.8 mg/kg to 670 mg/kg. These areas were excavated and resampled to remove the impacted material.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 97 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusion

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Cimarex 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

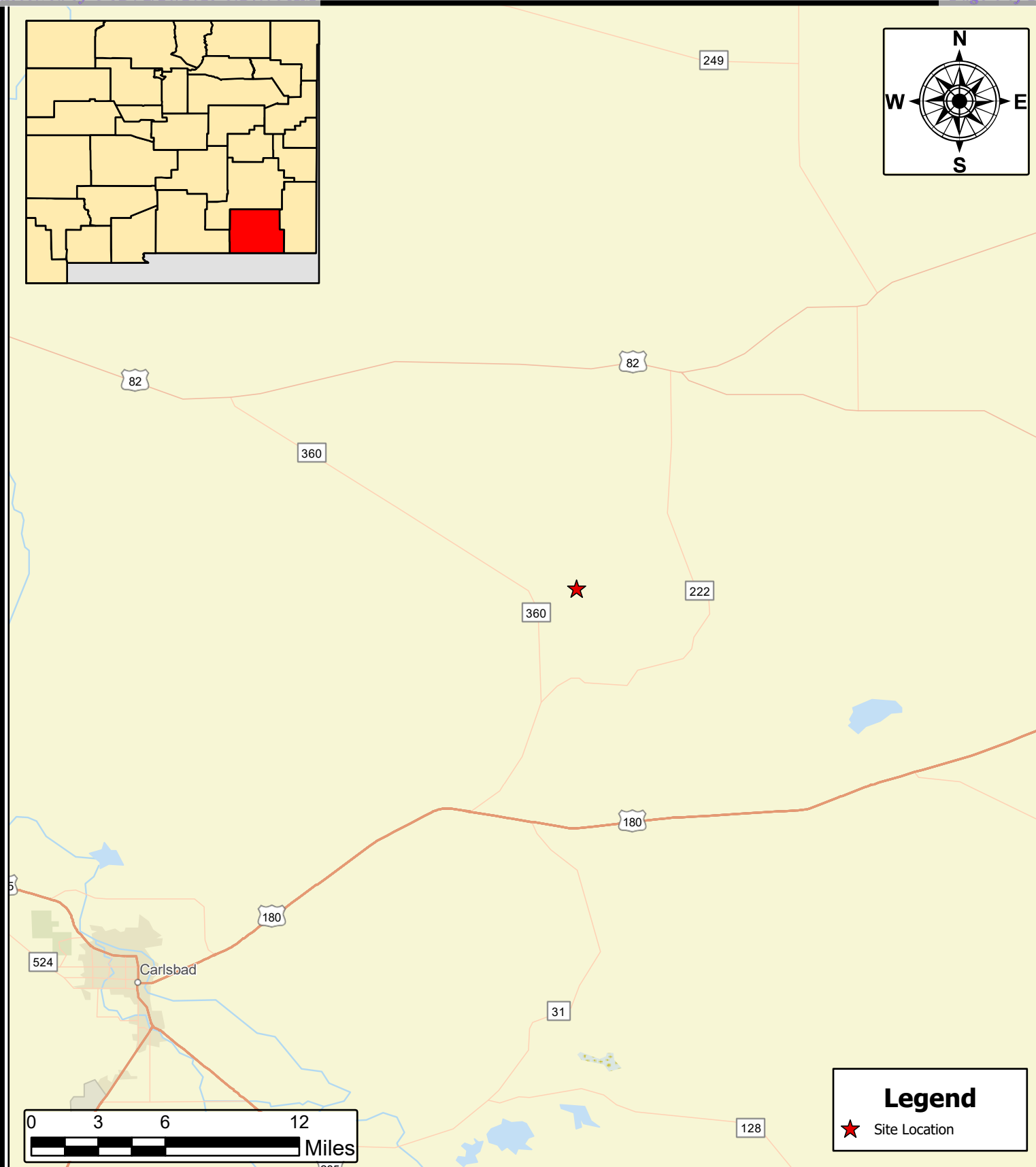
Conner Moehring
Sr. Project Manager

Ashton Thielke
Sr. Project Manager

FIGURES

CARMONA RESOURCES





OVERVIEW MAP
CIMAREX ENERGY CO. OF COLORADO
 CRESCENT HALE 10 FED 3H
 EDDY COUNTY, NEW MEXICO
 32.673689, -103.944767

SCALE: As Shown

Date: 1/18/2023



Carmona Resources
 310 West Wall Street, Suite 415
 Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

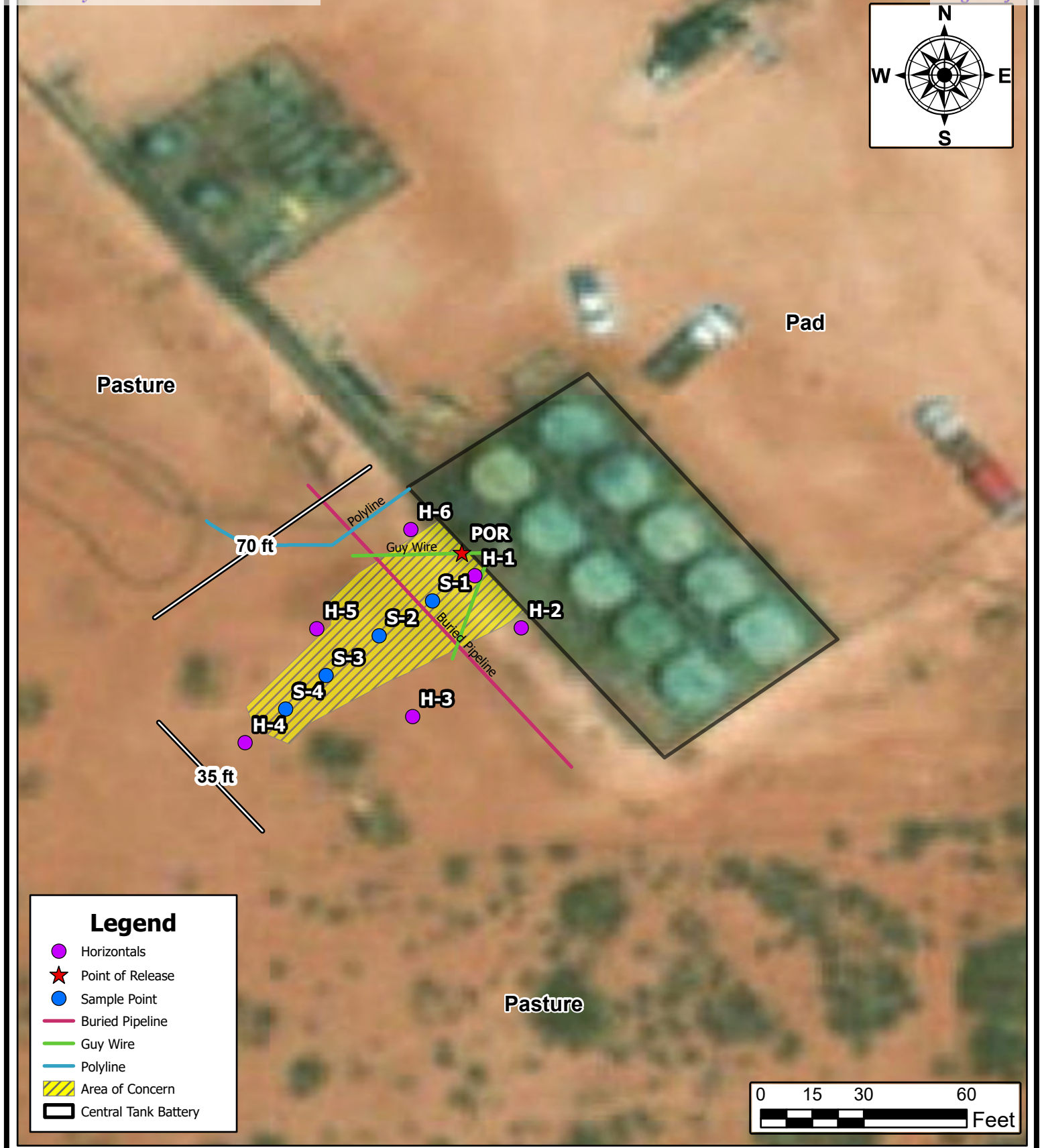
DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1





SAMPLE LOCATION MAP
CIMAREX ENERGY CO. OF COLORADO
CRESCENT HALE 10 FED 3H
EDDY COUNTY, NEW MEXICO
32.673689, -103.944767

SCALE: As Shown

Date: 1/18/2023

CARMONA RESOURCES



Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

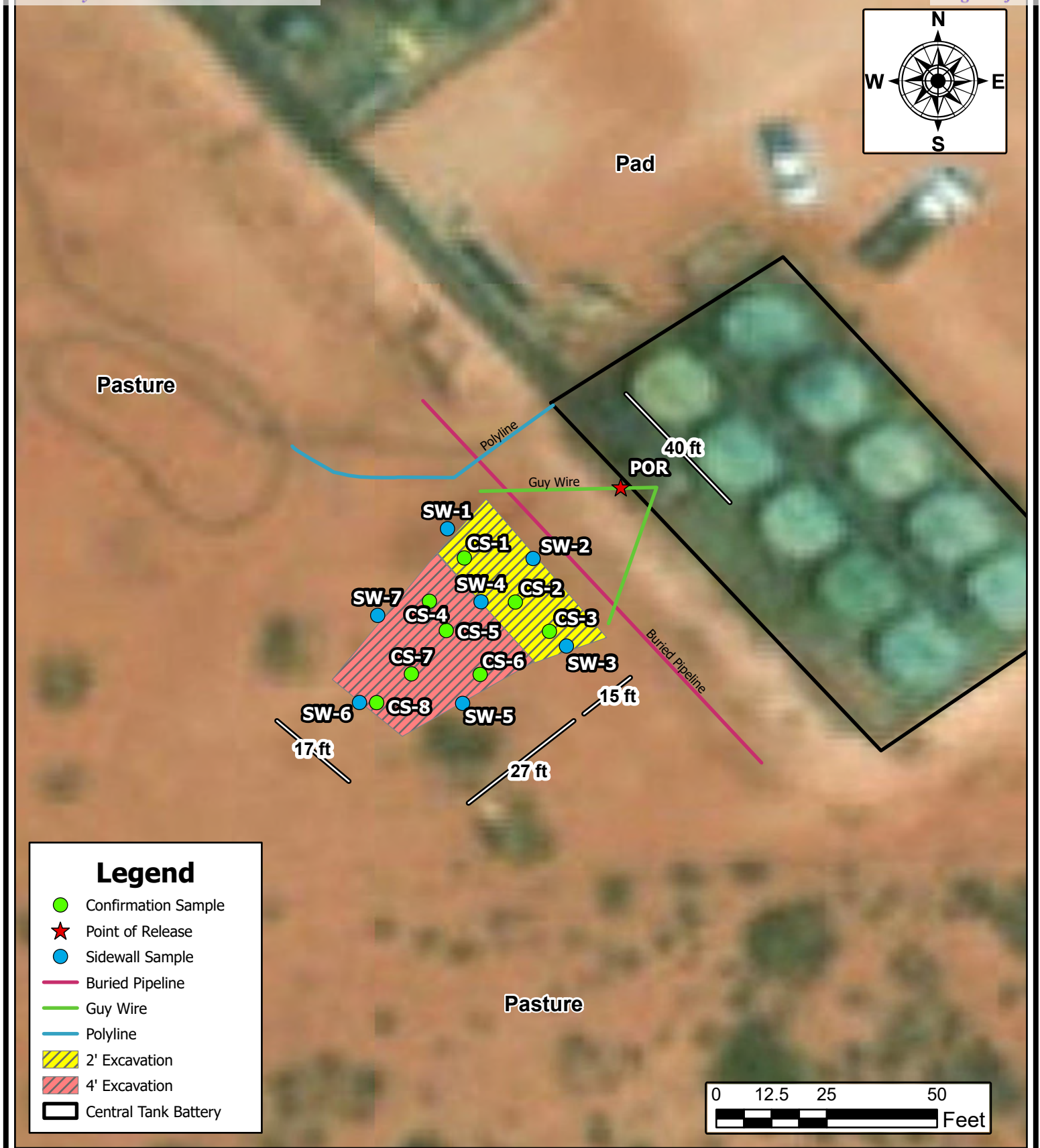
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1



<p>EXCAVATION DEPTH MAP CIMAREX ENERGY CO. OF COLORADO CRESCENT HALE 10 FED 3H EDDY COUNTY, NEW MEXICO 32.673689, -103.944767</p>	<p>Carmona Resources 310 West Wall Street, Suite 415 Midland, Texas 79701</p>	<p>NOTES: 1. Base Image: ESRI Maps & Data 2023 2. Map Projection: WGS84</p>	<p>DRAWING NUMBER: FIGURE 4 SHEET NUMBER: 1 of 1</p>
<p>SCALE: As Shown</p>	<p>Date: 1/18/2023</p>		

APPENDIX A


CARMONA RESOURCES



Table 1
Cimarex
Crescent Hale 10 Fed 3H (01.25.2019)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	11/29/2022	0-1	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	111
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	95.0
S-2	11/29/2022	0-1	75.9	<50.0	<50.0	75.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	17.3
	"	1.5	384	<49.9	86.1	470	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10.6
	"	2.0	91.1	<50.0	<50.0	91.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	17.6
	"	3.0	<50.0	70.8	<50.0	70.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	15.7
S-3	11/29/2022	0-1	133	<49.9	<49.9	133	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	28.7
	"	1.5	226	<49.9	53.5	280	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	69.9
	"	2.0	134	<50.0	<50.0	134	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	76.1
	"	3.0	3,560	<50.0	608	4,170	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	53.6
S-4	11/29/2022	0-1	88.2	<49.9	<49.9	88.2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	22.5
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	69.6
	"	2.0	117	<50.0	<50.0	117	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	40.5
	"	3.0	460	<49.9	92.1	552	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	85.5
H-1	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	44.0
H-2	11/29/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	35.0
H-3	11/29/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	17.1
H-4	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	16.7
H-5	11/29/2022	0-1	594	<50.0	131	725	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	17.5
H-6	11/29/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.7
Regulatory Criteria^A							100 mg/kg	10 mg/kg	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

 Exceeds

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Soil Sample

(H) Horizontal Sample

Table 2
Cimarex
Crescent Hale 10 Fed 3H
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	1/12/2023	2.0	<10.0	27.2	<10.0	27.2	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-2	1/12/2023	2.0	<10.0	82.6	18.9	101.8	<0.050	<0.050	<0.050	<0.150	<0.300	128
	1/16/2023	2.0	<10.0	15.0	<10.0	15.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-3	1/12/2023	2.0	<10.0	12.9	<10.0	12.9	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-4	1/12/2023	4.0	<10.0	15.0	<10.0	15.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-5	1/12/2023	4.0	<10.0	17.7	<10.0	17.7	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-6	1/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
CS-7	1/12/2023	4.0	<10.0	20.7	<10.0	20.7	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-8	1/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-1	1/12/2023	2.0	<10.0	188	46.4	234.4	<0.050	<0.050	<0.050	<0.150	<0.300	208
	1/16/2023	2.0	<10.0	15.0	<10.0	15.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-2	1/12/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-3	1/12/2023	2.0	<10.0	15.5	<10.0	16	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	1/12/2023	2.0	<10.0	145	34.2	179.2	<0.050	<0.050	<0.050	<0.150	<0.300	112
	1/16/2023	2.0	<10.0	15.0	<10.0	15.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	1/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-6	1/12/2023	4.0	<10.0	546	124	670	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	1/16/2023	4.0	<10.0	15.0	<10.0	15.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	1/12/2023	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
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

Removed

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy

Photograph No. 1

Facility: Crescent Hale 10 Fed 3H (01.25.19)

County: Eddy County, New Mexico

Description:

View Southeast, area of confirmation samples (1-3).



Photograph No. 2

Facility: Crescent Hale 10 Fed 3H (01.25.19)

County: Eddy County, New Mexico

Description:

View South, area of confirmation samples (4-8).



Photograph No. 3

Facility: Crescent Hale 10 Fed 3H (01.25.19)

County: Eddy County, New Mexico

Description:

View Northeast, of the excavation backfilled.



APPENDIX C

CARMONA RESOURCES



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

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

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

Incident ID	NAB1907044557
District RP	2RP-5292
Facility ID	
Application ID	pAB1907044283

Release Notification

Responsible Party

Responsible Party Cimarex Energy	OGRID 162683
Contact Name Christine Alderman	Contact Telephone 432-853-7059
Contact email calderman@cimarex.com	Incident # (assigned by OCD) NAB1907044557
Contact mailing address 600 N Marienfeld Ste 60, Midland, TX 79701	

Location of Release Source

Latitude 32.67381 Longitude -103.94470
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Crescent Hale 10 Fed 3H	Site Type production battery
Date Release Discovered 1/25/2019	API# (if applicable) 30-015-40784

Unit Letter	Section	Township	Range	County
K	11	19S	30E	Eddy

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 checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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

Fill lines on top of tanks were shut. When lines opened it pressured up the VRT causing the PRV to release and release fluids into the lined containment and some onto the lease pad. Dimensions 61' x 25' x 3". A hydro vac was called to remove the initial impact from the soils.

State of New Mexico
Oil Conservation Division

Incident ID	NAB1907044557
District RP	2RP-5292
Facility ID	
Application ID	pAB1907044283

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" 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)? Yes Christine Alderman Mike Bratcher Jim Amos 2/5/2019
---	--

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" 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: <u>Christine Alderman</u> Signature: <u>Christine Alderman</u> email: <u>calderman@cimarex.com</u>	Title: <u>ESH Supervisor</u> Date: <u>1/14/2019</u> Telephone: <u>432-853-7059</u>
<u>OCD Only</u> Received by: <u>Ana Maria Butamonte</u> Date: <u>3/11/2019</u>	

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: *Jac. Lj* Date: _____

email: _____ Telephone: _____

OCD OnlyReceived by: Jocelyn Harimon Date: 02/20/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

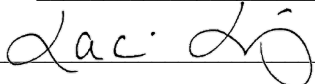
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: _____ Title: _____

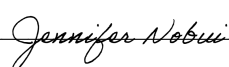
Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 02/20/2023

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: 03/01/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Ashton Thielke

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, January 10, 2023 2:28 PM
To: Ashton Thielke
Cc: Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] nAB1907044557 - CRESCENT HALE 10 FEDERAL #003H (01.25.2019) - Confirmation Sampling

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Ashton,

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Tuesday, January 10, 2023 12:18 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nAB1907044557 - CRESCENT HALE 10 FEDERAL #003H (01.25.2019) - Confirmation Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

This email serves as notification for confirmation sampling on the above mentioned site.
Sampling is scheduled to begin as early as January 12, 2022, weather and soil conditions permitting.
Incident ID: nAB1907044557
Coordinates: 32.673689, -103.944767

Thank you,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.5347 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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APPENDIX D

CARMONA RESOURCES



Nearest water well

Cimarex Energy Co.

Legend

- 0.50 Mile Radius
- 0.75 Miles
- 2.33 Miles
- 2.59 Miles
- Crescent Hale 10 Fed 3H (01.25.2019)
- NMSEO Water Well
- USGS Water Well



High Karst

Cimarex Energy Co.

Legend

Crescent Hale 10 Fed 3H (01.25.2019)

High

Low

Medium

Crescent Hale 10 Fed 3H (01.25.2019)



2 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
CP 00647 POD1	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	1224	200	92	108
CP 00822 POD1		CP	LE		4	4	15	19S	30E	598148	3613516*	2248	90		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	3269	630		
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	3448	630		
CP 00767 POD1		CP	ED		3	2	35	18S	30E	599300	3619158*	3557	500		
CP 00873 POD1		CP	LE		1	1	19	19S	31E	601772	3613147*	3754	340	180	160

Average Depth to Water: **136 feet**

Minimum Depth: **92 feet**

Maximum Depth: **180 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 598945.23

Northing (Y): 3615618.39

Radius: 4000

*UTM location was derived from PLSS - see Help

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

11/9/22 8:20 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)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	CP 00647 POD1	4	2	2	15	19S	30E	598235	3614621* 
Driller License:		406		Driller Company:		TIDWELL, CLYDE J.			
Driller Name:		CLYDE J. TIDWELL							
Drill Start Date:		02/08/1982		Drill Finish Date:		02/18/1982		Plug Date:	
Log File Date:		02/22/1982		PCW Rev Date:				Source: Shallow	
Pump Type:				Pipe Discharge Size:				Estimated Yield:	
Casing Size:				Depth Well:		200 feet		Depth Water: 92 feet	
x									
Water Bearing Stratifications:				Top	Bottom	Description			
				115	140	Other/Unknown			
x									
Casing Perforations:				Top	Bottom				
				115	140				

*UTM location was derived from PLSS - see Help

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

11/9/22 8:21 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
CP 00873	POD1	1 1 19 19S 31E	601772	3613147*

x

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE
-----------------------------	--

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date: 01/02/1998	Drill Finish Date: 01/05/1998	Plug Date:
Log File Date: 01/15/1998	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 50 GPM
Casing Size: 6.62	Depth Well: 340 feet	Depth Water: 180 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	240	320	Shallow Alluvium/Basin Fill

x

Casing Perforations:	Top	Bottom
	226	340

x

Meter Number: 805	Meter Make: MASTER
Meter Serial Number: 1748543	Meter Multiplier: 100.0000
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/1999	1999	37400	A	fm		0
01/15/1999	1999	43541	A	fm		1.885
04/27/2000	2000	14849	R	jw	Meter Rollover	298.083
07/31/2000	2000	24399	A	jw		2.931

**YTD Meter Amounts:	Year	Amount
	1999	1.885
	2000	301.014

*UTM location was derived from PLSS - see Help

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

11/9/22 8:23 AM

POINT OF DIVERSION SUMMARY



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the [Water Data For The Nation Blog](#) for full details, including how to navigate back to the legacy Current Condition page, if desired.
- 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 =

- 323937103591001

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

USGS 323937103591001 19S.30E.17.24411

Eddy County, New Mexico
Latitude 32°39'37", Longitude 103°59'10" NAD27
Land-surface elevation 3,339 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) 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 measu
1965-12-09			D 62610		3200.48	NGVD29	P		Z	
1965-12-09			D 62611		3202.00	NAVD88	P		Z	
1965-12-09			D 72019	137.00			P		Z	
1968-04-02			D 62610		3201.26	NGVD29	1		Z	
1968-04-02			D 62611		3202.78	NAVD88	1		Z	
1968-04-02			D 72019	136.22			1		Z	
1971-02-01			D 62610		3195.28	NGVD29	1		Z	
1971-02-01			D 62611		3196.80	NAVD88	1		Z	
1971-02-01			D 72019	142.20			1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

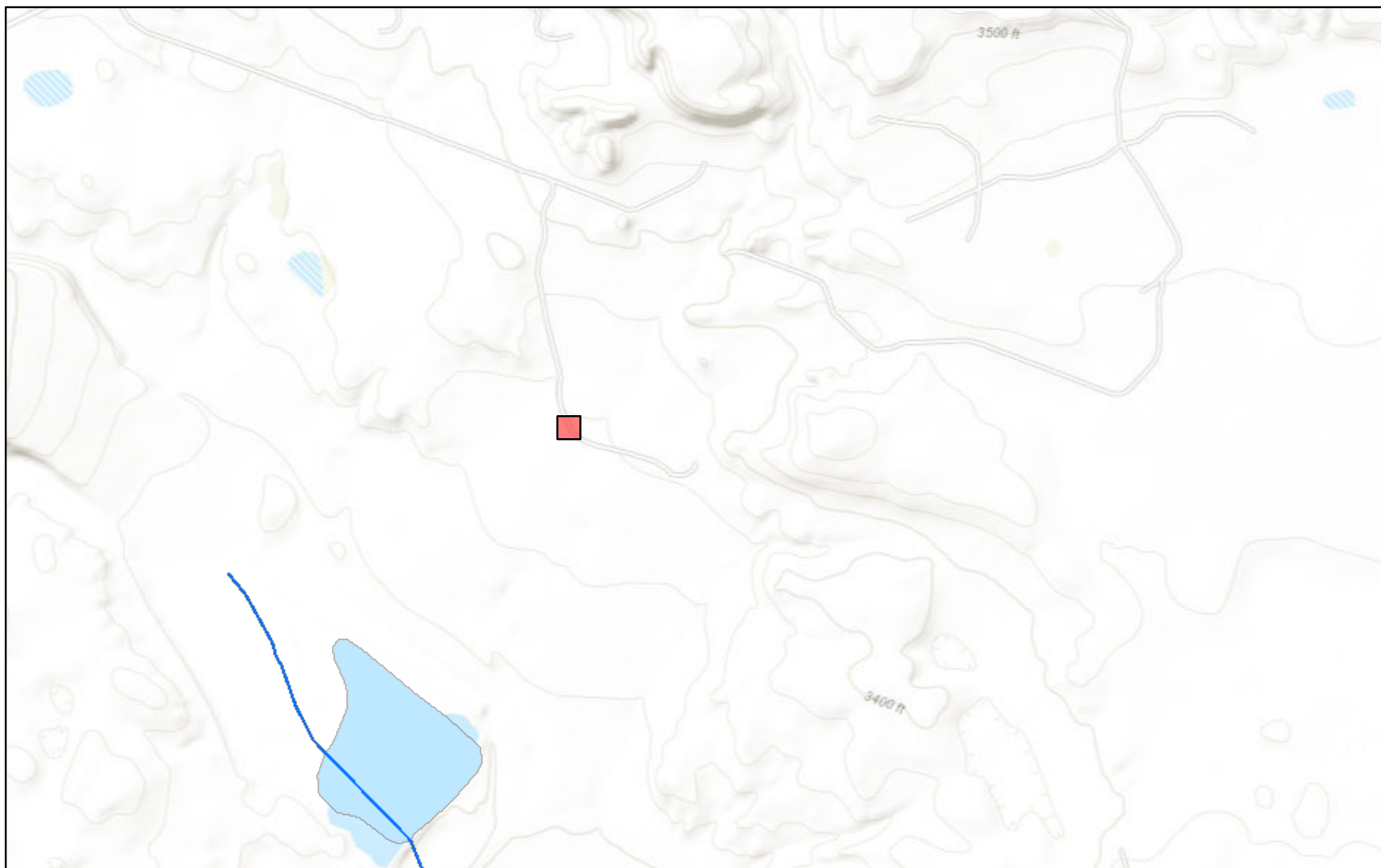
[Questions about sites/data?](#)
[Feedback on this web site](#)
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[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/>

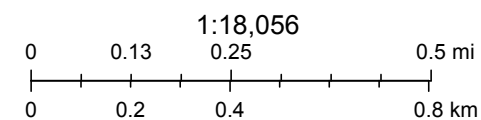


Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2022-11-09 10:24:33 EST
0.28 0.25 nadww02

New Mexico NFHL Data



November 9, 2022



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

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APPENDIX E

CARMONA RESOURCES





Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 12/9/2022 1:08:32 PM

JOB DESCRIPTION

Crescent Hale 10 Fed 3H
SDG NUMBER Eddy Co, NM

JOB NUMBER

880-22036-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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
12/9/2022 1:08:32 PM

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

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Laboratory Job ID: 880-22036-1
SDG: Eddy Co, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	22
QC Sample Results	24
QC Association Summary	31
Lab Chronicle	36
Certification Summary	43
Method Summary	44
Sample Summary	45
Chain of Custody	46
Receipt Checklists	49

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Job ID: 880-22036-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22036-1

Receipt

The samples were received on 11/30/2022 9:09 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 1.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-1') (880-22036-1), H-2 (0-1') (880-22036-2), H-3 (0-1') (880-22036-3), H-4 (0-1') (880-22036-4), H-5 (0-1') (880-22036-5), H-6 (0-1') (880-22036-6), S-1 (0-1') (880-22036-7), S-1 (1.5') (880-22036-8), S-1 (2') (880-22036-9), S-1 (3') (880-22036-10), S-2 (0-1') (880-22036-11), S-2 (1.5') (880-22036-12), S-2 (2') (880-22036-13), S-2 (3') (880-22036-14), S-3 (0-1') (880-22036-15), S-3 (1.5') (880-22036-16), S-3 (2') (880-22036-17), S-3 (3') (880-22036-18), S-4 (0-1') (880-22036-19), S-4 (1.5') (880-22036-20), S-4 (2') (880-22036-21), S-4 (3') (880-22036-22), S-1 (4') (880-22036-23) and S-1 (5') (880-22036-24).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40781 and analytical batch 880-40732 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40812 and analytical batch 880-41352 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41354 and analytical batch 880-41352 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-22036-A-1-D MS) and (880-22036-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40812 and analytical batch 880-41352 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-1 (0-1') (880-22036-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-3 (0-1') (880-22036-15). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41026 and analytical batch 880-41106 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-1') (880-22036-1), H-2 (0-1') (880-22036-2), H-3 (0-1') (880-22036-3), H-4 (0-1') (880-22036-4), H-5 (0-1') (880-22036-5), H-6 (0-1') (880-22036-6), S-1 (0-1') (880-22036-7), S-1 (1.5') (880-22036-8), S-2 (0-1') (880-22036-11), S-2 (1.5') (880-22036-12), S-2 (2') (880-22036-13), S-2 (3') (880-22036-14), S-3 (0-1') (880-22036-15), S-3 (1.5') (880-22036-16), S-3 (2') (880-22036-17), S-3 (3') (880-22036-18), S-4 (0-1') (880-22036-19), S-4 (1.5') (880-22036-20), S-4 (2') (880-22036-21), S-4 (3') (880-22036-22), (LCS 880-41026/2-A), (LCS 880-41026/3-A) and (MB 880-41026/1-A). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Job ID: 880-22036-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

HPLC/IC

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

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12
13
14

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-1

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 14:19	12/09/22 02:53	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 14:19	12/09/22 02:53	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 14:19	12/09/22 02:53	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		12/01/22 14:19	12/09/22 02:53	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 14:19	12/09/22 02:53	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		12/01/22 14:19	12/09/22 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	12/01/22 14:19	12/09/22 02:53	1
1,4-Difluorobenzene (Surr)	111		70 - 130	12/01/22 14:19	12/09/22 02:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		12/05/22 11:35	12/06/22 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	12/05/22 11:35	12/06/22 11:29	1
o-Terphenyl	143	S1+	70 - 130	12/05/22 11:35	12/06/22 11:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.0		5.00		mg/Kg			12/04/22 16:52	1

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

Lab Sample ID: 880-22036-2

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 03:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 03:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 03:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/01/22 14:19	12/09/22 03:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 03:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 14:19	12/09/22 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/01/22 14:19	12/09/22 03:14	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/01/22 14:19	12/09/22 03:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-2

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 12:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 12:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				12/05/22 11:35	12/06/22 12:35	1
o-Terphenyl	166	S1+	70 - 130				12/05/22 11:35	12/06/22 12:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.0		4.99		mg/Kg			12/04/22 17:16	1

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

Lab Sample ID: 880-22036-3

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 03:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 03:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 03:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 03:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 03:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				12/01/22 14:19	12/09/22 03:34	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/01/22 14:19	12/09/22 03:34	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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 12:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 12:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-3

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/05/22 11:35	12/06/22 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				12/05/22 11:35	12/06/22 12:57	1
o-Terphenyl	145	S1+	70 - 130				12/05/22 11:35	12/06/22 12:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.1		5.05		mg/Kg			12/04/22 17:25	1

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

Lab Sample ID: 880-22036-4

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 03:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 03:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 03:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 03:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 03:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130				12/01/22 14:19	12/09/22 03:55	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/01/22 14:19	12/09/22 03:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 13:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				12/05/22 11:35	12/06/22 13:19	1
o-Terphenyl	145	S1+	70 - 130				12/05/22 11:35	12/06/22 13:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.7		4.97		mg/Kg			12/04/22 17:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-5

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 04:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 04:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 04:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/01/22 14:19	12/09/22 04:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 04:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 14:19	12/09/22 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	12/01/22 14:19	12/09/22 04:15	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/01/22 14:19	12/09/22 04:15	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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	725		50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 13:42	1
Diesel Range Organics (Over C10-C28)	594		50.0		mg/Kg		12/05/22 11:35	12/06/22 13:42	1
Oil Range Organics (Over C28-C36)	131		50.0		mg/Kg		12/05/22 11:35	12/06/22 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	12/05/22 11:35	12/06/22 13:42	1
o-Terphenyl	140	S1+	70 - 130	12/05/22 11:35	12/06/22 13:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		4.98		mg/Kg			12/04/22 17:41	1

Client Sample ID: H-6 (0-1')

Lab Sample ID: 880-22036-6

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 04:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 04:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 04:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 04:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 04:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 04:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/01/22 14:19	12/09/22 04:35	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/01/22 14:19	12/09/22 04:35	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: H-6 (0-1')

Lab Sample ID: 880-22036-6

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 14:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 14:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				12/05/22 11:35	12/06/22 14:03	1
o-Terphenyl	144	S1+	70 - 130				12/05/22 11:35	12/06/22 14:03	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.7		4.97		mg/Kg			12/04/22 18:05	1

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

Lab Sample ID: 880-22036-7

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 04:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 14:19	12/09/22 04:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 14:19	12/09/22 04:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 14:19	12/09/22 04:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 14:19	12/09/22 04:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 14:19	12/09/22 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				12/01/22 14:19	12/09/22 04:56	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/01/22 14:19	12/09/22 04:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/22 12:20	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			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/22 11:35	12/06/22 14:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/22 11:35	12/06/22 14:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-7

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/22 11:35	12/06/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				12/05/22 11:35	12/06/22 14:26	1
o-Terphenyl	160	S1+	70 - 130				12/05/22 11:35	12/06/22 14:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.96		mg/Kg			12/04/22 18:13	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-22036-8

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 05:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 05:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 05:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				12/01/22 14:19	12/09/22 05:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/01/22 14:19	12/09/22 05:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 14:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 14:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				12/05/22 11:35	12/06/22 14:48	1
o-Terphenyl	145	S1+	70 - 130				12/05/22 11:35	12/06/22 14:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.0		5.04		mg/Kg			12/04/22 18:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-11

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 05:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 05:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	12/01/22 14:19	12/09/22 05:37	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/01/22 14:19	12/09/22 05:37	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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.9		50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 15:10	1
Diesel Range Organics (Over C10-C28)	75.9		50.0		mg/Kg		12/05/22 11:35	12/06/22 15:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	12/05/22 11:35	12/06/22 15:10	1
o-Terphenyl	165	S1+	70 - 130	12/05/22 11:35	12/06/22 15:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.3		5.00		mg/Kg			12/04/22 18:30	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-22036-12

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 05:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 05:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 05:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	12/01/22 14:19	12/09/22 05:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/01/22 14:19	12/09/22 05:57	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-22036-12

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	470		49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 15:33	1
Diesel Range Organics (Over C10-C28)	384		49.9		mg/Kg		12/05/22 11:35	12/06/22 15:33	1
Oil Range Organics (Over C28-C36)	86.1		49.9		mg/Kg		12/05/22 11:35	12/06/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				12/05/22 11:35	12/06/22 15:33	1
o-Terphenyl	139	S1+	70 - 130				12/05/22 11:35	12/06/22 15:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.6		4.99		mg/Kg			12/04/22 18:38	1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-22036-13

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 07:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 07:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 07:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/01/22 14:19	12/09/22 07:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 07:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 14:19	12/09/22 07:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130				12/01/22 14:19	12/09/22 07:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/01/22 14:19	12/09/22 07:47	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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.1		50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 16:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (2')

Lab Sample ID: 880-22036-13

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	91.1		50.0		mg/Kg		12/05/22 11:35	12/06/22 16:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130				12/05/22 11:35	12/06/22 16:17	1
o-Terphenyl	169	S1+	70 - 130				12/05/22 11:35	12/06/22 16:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		4.98		mg/Kg			12/04/22 18:46	1

Client Sample ID: S-2 (3')

Lab Sample ID: 880-22036-14

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 08:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 14:19	12/09/22 08:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 14:19	12/09/22 08:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/22 14:19	12/09/22 08:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 14:19	12/09/22 08:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 14:19	12/09/22 08:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				12/01/22 14:19	12/09/22 08:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/01/22 14:19	12/09/22 08:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.8		50.0		mg/Kg			12/07/22 10:55	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	70.8		50.0		mg/Kg		12/05/22 11:35	12/06/22 16:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 16:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				12/05/22 11:35	12/06/22 16:39	1
o-Terphenyl	164	S1+	70 - 130				12/05/22 11:35	12/06/22 16:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.7		5.00		mg/Kg			12/04/22 19:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-15

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 08:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 08:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 08:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/01/22 14:19	12/09/22 08:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 08:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 14:19	12/09/22 08:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	12/01/22 14:19	12/09/22 08:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/01/22 14:19	12/09/22 08:50	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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	133		49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 17:01	1
Diesel Range Organics (Over C10-C28)	133		49.9		mg/Kg		12/05/22 11:35	12/06/22 17:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	12/05/22 11:35	12/06/22 17:01	1
o-Terphenyl	140	S1+	70 - 130	12/05/22 11:35	12/06/22 17:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.7		4.97		mg/Kg			12/04/22 19:18	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-22036-16

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 09:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 09:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 09:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 09:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 09:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 09:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	12/01/22 14:19	12/09/22 09:10	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/01/22 14:19	12/09/22 09:10	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-22036-16

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	280		49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 17:23	1
Diesel Range Organics (Over C10-C28)	226		49.9		mg/Kg		12/05/22 11:35	12/06/22 17:23	1
Oil Range Organics (Over C28-C36)	53.5		49.9		mg/Kg		12/05/22 11:35	12/06/22 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				12/05/22 11:35	12/06/22 17:23	1
o-Terphenyl	159	S1+	70 - 130				12/05/22 11:35	12/06/22 17:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.9		4.95		mg/Kg			12/04/22 19:43	1

Client Sample ID: S-3 (2')

Lab Sample ID: 880-22036-17

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 09:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/01/22 14:19	12/09/22 09:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/01/22 14:19	12/09/22 09:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/01/22 14:19	12/09/22 09:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/01/22 14:19	12/09/22 09:31	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/01/22 14:19	12/09/22 09:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				12/01/22 14:19	12/09/22 09:31	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/01/22 14:19	12/09/22 09:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	134		50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 17:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: S-3 (2')

Lab Sample ID: 880-22036-17

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	134		50.0		mg/Kg		12/05/22 11:35	12/06/22 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				12/05/22 11:35	12/06/22 17:46	1
o-Terphenyl	168	S1+	70 - 130				12/05/22 11:35	12/06/22 17:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.1		5.02		mg/Kg			12/04/22 19:51	1

Client Sample ID: S-3 (3')

Lab Sample ID: 880-22036-18

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 09:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 09:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 09:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 09:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 14:19	12/09/22 09:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 14:19	12/09/22 09:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				12/01/22 14:19	12/09/22 09:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/01/22 14:19	12/09/22 09:51	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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4170		50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 18:51	1
Diesel Range Organics (Over C10-C28)	3560		50.0		mg/Kg		12/05/22 11:35	12/06/22 18:51	1
Oil Range Organics (Over C28-C36)	608		50.0		mg/Kg		12/05/22 11:35	12/06/22 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				12/05/22 11:35	12/06/22 18:51	1
o-Terphenyl	152	S1+	70 - 130				12/05/22 11:35	12/06/22 18:51	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.6		5.00		mg/Kg			12/04/22 19:59	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-19

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 10:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 10:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 10:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/01/22 14:19	12/09/22 10:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 10:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 14:19	12/09/22 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/01/22 14:19	12/09/22 10:12	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/01/22 14:19	12/09/22 10:12	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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.2		49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 18:08	1
Diesel Range Organics (Over C10-C28)	88.2		49.9		mg/Kg		12/05/22 11:35	12/06/22 18:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				12/05/22 11:35	12/06/22 18:08	1
o-Terphenyl	161	S1+	70 - 130				12/05/22 11:35	12/06/22 18:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		4.98		mg/Kg			12/04/22 20:07	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-22036-20

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 14:19	12/09/22 10:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/01/22 14:19	12/09/22 10:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/01/22 14:19	12/09/22 10:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/01/22 14:19	12/09/22 10:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/01/22 14:19	12/09/22 10:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/01/22 14:19	12/09/22 10:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/01/22 14:19	12/09/22 10:32	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/01/22 14:19	12/09/22 10:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-22036-20

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			12/09/22 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 18:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 18:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				12/05/22 11:35	12/06/22 18:29	1
o-Terphenyl	153	S1+	70 - 130				12/05/22 11:35	12/06/22 18:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.6		5.05		mg/Kg			12/04/22 20:15	1

Client Sample ID: S-4 (2')

Lab Sample ID: 880-22036-21

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 12:54	12/02/22 04:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 12:54	12/02/22 04:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 12:54	12/02/22 04:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 12:54	12/02/22 04:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 12:54	12/02/22 04:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 12:54	12/02/22 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				12/01/22 12:54	12/02/22 04:33	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/01/22 12:54	12/02/22 04:33	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			12/02/22 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	117		50.0		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 19:13	1
Diesel Range Organics (Over C10-C28)	117		50.0		mg/Kg		12/05/22 11:35	12/06/22 19:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: S-4 (2')

Lab Sample ID: 880-22036-21

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				12/05/22 11:35	12/06/22 19:13	1
o-Terphenyl	158	S1+	70 - 130				12/05/22 11:35	12/06/22 19:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.5		5.03		mg/Kg			12/04/22 20:23	1

Client Sample ID: S-4 (3')

Lab Sample ID: 880-22036-22

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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		12/01/22 12:54	12/02/22 04:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 12:54	12/02/22 04:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 12:54	12/02/22 04:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/22 12:54	12/02/22 04:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 12:54	12/02/22 04:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 12:54	12/02/22 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/01/22 12:54	12/02/22 04:53	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/01/22 12:54	12/02/22 04:53	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			12/02/22 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	552		49.9		mg/Kg			12/07/22 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/22 11:35	12/06/22 19:35	1
Diesel Range Organics (Over C10-C28)	460		49.9		mg/Kg		12/05/22 11:35	12/06/22 19:35	1
Oil Range Organics (Over C28-C36)	92.1		49.9		mg/Kg		12/05/22 11:35	12/06/22 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				12/05/22 11:35	12/06/22 19:35	1
o-Terphenyl	133	S1+	70 - 130				12/05/22 11:35	12/06/22 19:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.5		5.03		mg/Kg			12/04/22 20:31	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-22036-1	H-1 (0-1')	64 S1-	111
880-22036-1 MS	H-1 (0-1')	66 S1-	98
880-22036-1 MSD	H-1 (0-1')	65 S1-	95
880-22036-2	H-2 (0-1')	86	110
880-22036-3	H-3 (0-1')	86	103
880-22036-4	H-4 (0-1')	72	94
880-22036-5	H-5 (0-1')	91	109
880-22036-6	H-6 (0-1')	97	108
880-22036-7	S-1 (0-1')	93	107
880-22036-8	S-1 (1.5')	84	97
880-22036-11	S-2 (0-1')	79	103
880-22036-12	S-2 (1.5')	78	93
880-22036-13	S-2 (2')	74	99
880-22036-14	S-2 (3')	82	103
880-22036-15	S-3 (0-1')	66 S1-	100
880-22036-16	S-3 (1.5')	83	96
880-22036-17	S-3 (2')	96	104
880-22036-18	S-3 (3')	77	107
880-22036-19	S-4 (0-1')	90	106
880-22036-20	S-4 (1.5')	89	107
880-22036-21	S-4 (2')	92	102
880-22036-22	S-4 (3')	94	91
880-22130-A-1-A MS	Matrix Spike	92	112
880-22130-A-1-B MSD	Matrix Spike Duplicate	89	108
LCS 880-40781/1-A	Lab Control Sample	111	111
LCS 880-40812/1-A	Lab Control Sample	77	109
LCSD 880-40781/2-A	Lab Control Sample Dup	100	118
LCSD 880-40812/2-A	Lab Control Sample Dup	76	102
MB 880-40739/5-A	Method Blank	85	101
MB 880-40781/5-A	Method Blank	83	99
MB 880-40812/5-A	Method Blank	66 S1-	102
MB 880-41354/5-A	Method Blank	69 S1-	102

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-22036-1	H-1 (0-1')	119	143 S1+
880-22036-1 MS	H-1 (0-1')	116	122
880-22036-1 MSD	H-1 (0-1')	114	123
880-22036-2	H-2 (0-1')	141 S1+	166 S1+
880-22036-3	H-3 (0-1')	121	145 S1+
880-22036-4	H-4 (0-1')	119	145 S1+
880-22036-5	H-5 (0-1')	119	140 S1+

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Surrogate Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-22036-6	H-6 (0-1')	123	144 S1+
880-22036-7	S-1 (0-1')	133 S1+	160 S1+
880-22036-8	S-1 (1.5')	122	145 S1+
880-22036-11	S-2 (0-1')	137 S1+	165 S1+
880-22036-12	S-2 (1.5')	117	139 S1+
880-22036-13	S-2 (2')	140 S1+	169 S1+
880-22036-14	S-2 (3')	137 S1+	164 S1+
880-22036-15	S-3 (0-1')	117	140 S1+
880-22036-16	S-3 (1.5')	139 S1+	159 S1+
880-22036-17	S-3 (2')	145 S1+	168 S1+
880-22036-18	S-3 (3')	135 S1+	152 S1+
880-22036-19	S-4 (0-1')	136 S1+	161 S1+
880-22036-20	S-4 (1.5')	125	153 S1+
880-22036-21	S-4 (2')	133 S1+	158 S1+
880-22036-22	S-4 (3')	115	133 S1+
LCS 880-41026/2-A	Lab Control Sample	147 S1+	178 S1+
LCSD 880-41026/3-A	Lab Control Sample Dup	140 S1+	167 S1+
MB 880-41026/1-A	Method Blank	112	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40739/5-A

Matrix: Solid

Analysis Batch: 40732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 08:49	12/01/22 10:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 08:49	12/01/22 10:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 08:49	12/01/22 10:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 08:49	12/01/22 10:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 08:49	12/01/22 10:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 08:49	12/01/22 10:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	12/01/22 08:49	12/01/22 10:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/01/22 08:49	12/01/22 10:31	1

Lab Sample ID: MB 880-40781/5-A

Matrix: Solid

Analysis Batch: 40732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40781

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 12:54	12/01/22 21:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 12:54	12/01/22 21:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 12:54	12/01/22 21:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 12:54	12/01/22 21:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 12:54	12/01/22 21:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 12:54	12/01/22 21:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	12/01/22 12:54	12/01/22 21:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/01/22 12:54	12/01/22 21:03	1

Lab Sample ID: LCS 880-40781/1-A

Matrix: Solid

Analysis Batch: 40732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09322		mg/Kg		93	70 - 130
Toluene	0.100	0.08702		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09384		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1914		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09339		mg/Kg		93	70 - 130

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

Lab Sample ID: LCSD 880-40781/2-A

Matrix: Solid

Analysis Batch: 40732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40781

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09606		mg/Kg		96	70 - 130	3	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-40781/2-A

Matrix: Solid

Analysis Batch: 40732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40781

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08146		mg/Kg		81	70 - 130	7	35
Ethylbenzene	0.100	0.08398		mg/Kg		84	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1687		mg/Kg		84	70 - 130	13	35
o-Xylene	0.100	0.08538		mg/Kg		85	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-22130-A-1-A MS

Matrix: Solid

Analysis Batch: 40732

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 40781

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0996	0.03316	F1	mg/Kg		33	70 - 130
Toluene	<0.00200	U F1	0.0996	0.01400	F1	mg/Kg		14	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.007986	F1	mg/Kg		8	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.01295	F1	mg/Kg		7	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.006194	F1	mg/Kg		6	70 - 130

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

Lab Sample ID: 880-22130-A-1-B MSD

Matrix: Solid

Analysis Batch: 40732

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 40781

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.02800	F1	mg/Kg		28	70 - 130	17	35
Toluene	<0.00200	U F1	0.100	0.01331	F1	mg/Kg		13	70 - 130	5	35
Ethylbenzene	<0.00200	U F1	0.100	0.007585	F1	mg/Kg		8	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.01236	F1	mg/Kg		6	70 - 130	5	35
o-Xylene	<0.00200	U F1	0.100	0.006164	F1	mg/Kg		6	70 - 130	0	35

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

Lab Sample ID: MB 880-40812/5-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/22 14:19	12/09/22 02:25	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-40812/5-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 14:19	12/09/22 02:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130				12/01/22 14:19	12/09/22 02:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/01/22 14:19	12/09/22 02:25	1

Lab Sample ID: LCS 880-40812/1-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09060		mg/Kg		91	70 - 130
Toluene	0.100	0.08987		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08402		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1513		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07504		mg/Kg		75	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	77		70 - 130				
1,4-Difluorobenzene (Surr)	109		70 - 130				

Lab Sample ID: LCSD 880-40812/2-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08083		mg/Kg		81	70 - 130	11	35
Toluene	0.100	0.08944		mg/Kg		89	70 - 130	0	35
Ethylbenzene	0.100	0.08507		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1525		mg/Kg		76	70 - 130	1	35
o-Xylene	0.100	0.07477		mg/Kg		75	70 - 130	0	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	76		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-22036-1 MS

Matrix: Solid

Analysis Batch: 41352

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

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.100	0.05819	F1	mg/Kg		58	70 - 130
Toluene	<0.00201	U F1	0.100	0.05709	F1	mg/Kg		57	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.05730	F1	mg/Kg		57	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1040	F1	mg/Kg		51	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.05678	F1	mg/Kg		56	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-1 MS

Matrix: Solid

Analysis Batch: 41352

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

Prep Type: Total/NA

Prep Batch: 40812

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-22036-1 MSD

Matrix: Solid

Analysis Batch: 41352

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

Prep Type: Total/NA

Prep Batch: 40812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0994	0.05039	F1	mg/Kg		51	70 - 130	14	35
Toluene	<0.00201	U F1	0.0994	0.05380	F1	mg/Kg		54	70 - 130	6	35
Ethylbenzene	<0.00201	U F1	0.0994	0.05628	F1	mg/Kg		57	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.09921	F1	mg/Kg		49	70 - 130	5	35
o-Xylene	<0.00201	U F1	0.0994	0.05389	F1	mg/Kg		54	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-41354/5-A

Matrix: Solid

Analysis Batch: 41352

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/08/22 10:50	12/08/22 14:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/08/22 10:50	12/08/22 14:50	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	12/08/22 10:50	12/08/22 14:50	1			
1,4-Difluorobenzene (Surr)	102		70 - 130	12/08/22 10:50	12/08/22 14:50	1			

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

Lab Sample ID: MB 880-41026/1-A

Matrix: Solid

Analysis Batch: 41106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41026

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		12/05/22 11:35	12/06/22 08:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 08:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/22 11:35	12/06/22 08:55	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-41026/1-A

Matrix: Solid

Analysis Batch: 41106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41026

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	12/05/22 11:35	12/06/22 08:55	1
o-Terphenyl	139	S1+	70 - 130	12/05/22 11:35	12/06/22 08:55	1

Lab Sample ID: LCS 880-41026/2-A

Matrix: Solid

Analysis Batch: 41106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41026

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	968.2		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	913.6		mg/Kg		91	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	178	S1+	70 - 130

Lab Sample ID: LCSD 880-41026/3-A

Matrix: Solid

Analysis Batch: 41106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41026

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	821.8		mg/Kg		82	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	839.5		mg/Kg		84	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	167	S1+	70 - 130

Lab Sample ID: 880-22036-1 MS

Matrix: Solid

Analysis Batch: 41106

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

Prep Type: Total/NA

Prep Batch: 41026

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	1456	F1	mg/Kg		143	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1140		mg/Kg		112	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	122		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-1 MSD

Matrix: Solid

Analysis Batch: 41106

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

Prep Type: Total/NA

Prep Batch: 41026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	1424	F1	mg/Kg		140	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1118		mg/Kg		110	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	114		70 - 130								
o-Terphenyl	123		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40699/1-A

Matrix: Solid

Analysis Batch: 40960

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/04/22 16:28	1

Lab Sample ID: LCS 880-40699/2-A

Matrix: Solid

Analysis Batch: 40960

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-40699/3-A

Matrix: Solid

Analysis Batch: 40960

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-22036-1 MS

Matrix: Solid

Analysis Batch: 40960

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	44.0		250	295.1		mg/Kg		100	90 - 110

Lab Sample ID: 880-22036-1 MSD

Matrix: Solid

Analysis Batch: 40960

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	44.0		250	295.2		mg/Kg		101	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22036-13 MS											Client Sample ID: S-2 (2')	
Matrix: Solid											Prep Type: Soluble	
Analysis Batch: 40960												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	17.6		249	272.0		mg/Kg		102	90 - 110			

Lab Sample ID: 880-22036-13 MSD											Client Sample ID: S-2 (2')	
Matrix: Solid											Prep Type: Soluble	
Analysis Batch: 40960												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	17.6		249	272.3		mg/Kg		102	90 - 110	0	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 40732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-21	S-4 (2')	Total/NA	Solid	8021B	40781
880-22036-22	S-4 (3')	Total/NA	Solid	8021B	40781
MB 880-40739/5-A	Method Blank	Total/NA	Solid	8021B	40739
MB 880-40781/5-A	Method Blank	Total/NA	Solid	8021B	40781
LCS 880-40781/1-A	Lab Control Sample	Total/NA	Solid	8021B	40781
LCSD 880-40781/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40781
880-22130-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	40781
880-22130-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40781

Prep Batch: 40739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40739/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 40781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-21	S-4 (2')	Total/NA	Solid	5035	
880-22036-22	S-4 (3')	Total/NA	Solid	5035	
MB 880-40781/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40781/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40781/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22130-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-22130-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 40812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1	H-1 (0-1')	Total/NA	Solid	5035	
880-22036-2	H-2 (0-1')	Total/NA	Solid	5035	
880-22036-3	H-3 (0-1')	Total/NA	Solid	5035	
880-22036-4	H-4 (0-1')	Total/NA	Solid	5035	
880-22036-5	H-5 (0-1')	Total/NA	Solid	5035	
880-22036-6	H-6 (0-1')	Total/NA	Solid	5035	
880-22036-7	S-1 (0-1')	Total/NA	Solid	5035	
880-22036-8	S-1 (1.5')	Total/NA	Solid	5035	
880-22036-11	S-2 (0-1')	Total/NA	Solid	5035	
880-22036-12	S-2 (1.5')	Total/NA	Solid	5035	
880-22036-13	S-2 (2')	Total/NA	Solid	5035	
880-22036-14	S-2 (3')	Total/NA	Solid	5035	
880-22036-15	S-3 (0-1')	Total/NA	Solid	5035	
880-22036-16	S-3 (1.5')	Total/NA	Solid	5035	
880-22036-17	S-3 (2')	Total/NA	Solid	5035	
880-22036-18	S-3 (3')	Total/NA	Solid	5035	
880-22036-19	S-4 (0-1')	Total/NA	Solid	5035	
880-22036-20	S-4 (1.5')	Total/NA	Solid	5035	
MB 880-40812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22036-1 MS	H-1 (0-1')	Total/NA	Solid	5035	
880-22036-1 MSD	H-1 (0-1')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 40885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-5	H-5 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-6	H-6 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-7	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-8	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-22036-11	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-12	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-22036-13	S-2 (2')	Total/NA	Solid	Total BTEX	
880-22036-14	S-2 (3')	Total/NA	Solid	Total BTEX	
880-22036-15	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-16	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-22036-17	S-3 (2')	Total/NA	Solid	Total BTEX	
880-22036-18	S-3 (3')	Total/NA	Solid	Total BTEX	
880-22036-19	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-22036-20	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-22036-21	S-4 (2')	Total/NA	Solid	Total BTEX	
880-22036-22	S-4 (3')	Total/NA	Solid	Total BTEX	

Analysis Batch: 41352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1	H-1 (0-1')	Total/NA	Solid	8021B	40812
880-22036-2	H-2 (0-1')	Total/NA	Solid	8021B	40812
880-22036-3	H-3 (0-1')	Total/NA	Solid	8021B	40812
880-22036-4	H-4 (0-1')	Total/NA	Solid	8021B	40812
880-22036-5	H-5 (0-1')	Total/NA	Solid	8021B	40812
880-22036-6	H-6 (0-1')	Total/NA	Solid	8021B	40812
880-22036-7	S-1 (0-1')	Total/NA	Solid	8021B	40812
880-22036-8	S-1 (1.5')	Total/NA	Solid	8021B	40812
880-22036-11	S-2 (0-1')	Total/NA	Solid	8021B	40812
880-22036-12	S-2 (1.5')	Total/NA	Solid	8021B	40812
880-22036-13	S-2 (2')	Total/NA	Solid	8021B	40812
880-22036-14	S-2 (3')	Total/NA	Solid	8021B	40812
880-22036-15	S-3 (0-1')	Total/NA	Solid	8021B	40812
880-22036-16	S-3 (1.5')	Total/NA	Solid	8021B	40812
880-22036-17	S-3 (2')	Total/NA	Solid	8021B	40812
880-22036-18	S-3 (3')	Total/NA	Solid	8021B	40812
880-22036-19	S-4 (0-1')	Total/NA	Solid	8021B	40812
880-22036-20	S-4 (1.5')	Total/NA	Solid	8021B	40812
MB 880-40812/5-A	Method Blank	Total/NA	Solid	8021B	40812
MB 880-41354/5-A	Method Blank	Total/NA	Solid	8021B	41354
LCS 880-40812/1-A	Lab Control Sample	Total/NA	Solid	8021B	40812
LCSD 880-40812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40812
880-22036-1 MS	H-1 (0-1')	Total/NA	Solid	8021B	40812
880-22036-1 MSD	H-1 (0-1')	Total/NA	Solid	8021B	40812

Prep Batch: 41354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41354/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

GC Semi VOA

Prep Batch: 41026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-5	H-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-6	H-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-7	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-8	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-22036-11	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-12	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-22036-13	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-22036-14	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-22036-15	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-16	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-22036-17	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-22036-18	S-3 (3')	Total/NA	Solid	8015NM Prep	
880-22036-19	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-20	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-22036-21	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-22036-22	S-4 (3')	Total/NA	Solid	8015NM Prep	
MB 880-41026/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41026/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22036-1 MS	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-22036-1 MSD	H-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1	H-1 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-2	H-2 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-3	H-3 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-4	H-4 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-5	H-5 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-6	H-6 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-7	S-1 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-8	S-1 (1.5')	Total/NA	Solid	8015B NM	41026
880-22036-11	S-2 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-12	S-2 (1.5')	Total/NA	Solid	8015B NM	41026
880-22036-13	S-2 (2')	Total/NA	Solid	8015B NM	41026
880-22036-14	S-2 (3')	Total/NA	Solid	8015B NM	41026
880-22036-15	S-3 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-16	S-3 (1.5')	Total/NA	Solid	8015B NM	41026
880-22036-17	S-3 (2')	Total/NA	Solid	8015B NM	41026
880-22036-18	S-3 (3')	Total/NA	Solid	8015B NM	41026
880-22036-19	S-4 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-20	S-4 (1.5')	Total/NA	Solid	8015B NM	41026
880-22036-21	S-4 (2')	Total/NA	Solid	8015B NM	41026
880-22036-22	S-4 (3')	Total/NA	Solid	8015B NM	41026
MB 880-41026/1-A	Method Blank	Total/NA	Solid	8015B NM	41026
LCS 880-41026/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41026
LCSD 880-41026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41026

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 41106 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1 MS	H-1 (0-1')	Total/NA	Solid	8015B NM	41026
880-22036-1 MSD	H-1 (0-1')	Total/NA	Solid	8015B NM	41026

Analysis Batch: 41265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
880-22036-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
880-22036-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
880-22036-4	H-4 (0-1')	Total/NA	Solid	8015 NM	
880-22036-5	H-5 (0-1')	Total/NA	Solid	8015 NM	
880-22036-6	H-6 (0-1')	Total/NA	Solid	8015 NM	
880-22036-7	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-22036-8	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-22036-11	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-22036-12	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-22036-13	S-2 (2')	Total/NA	Solid	8015 NM	
880-22036-14	S-2 (3')	Total/NA	Solid	8015 NM	
880-22036-15	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-22036-16	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-22036-17	S-3 (2')	Total/NA	Solid	8015 NM	
880-22036-18	S-3 (3')	Total/NA	Solid	8015 NM	
880-22036-19	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-22036-20	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-22036-21	S-4 (2')	Total/NA	Solid	8015 NM	
880-22036-22	S-4 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22036-2	H-2 (0-1')	Soluble	Solid	DI Leach	
880-22036-3	H-3 (0-1')	Soluble	Solid	DI Leach	
880-22036-4	H-4 (0-1')	Soluble	Solid	DI Leach	
880-22036-5	H-5 (0-1')	Soluble	Solid	DI Leach	
880-22036-6	H-6 (0-1')	Soluble	Solid	DI Leach	
880-22036-7	S-1 (0-1')	Soluble	Solid	DI Leach	
880-22036-8	S-1 (1.5')	Soluble	Solid	DI Leach	
880-22036-11	S-2 (0-1')	Soluble	Solid	DI Leach	
880-22036-12	S-2 (1.5')	Soluble	Solid	DI Leach	
880-22036-13	S-2 (2')	Soluble	Solid	DI Leach	
880-22036-14	S-2 (3')	Soluble	Solid	DI Leach	
880-22036-15	S-3 (0-1')	Soluble	Solid	DI Leach	
880-22036-16	S-3 (1.5')	Soluble	Solid	DI Leach	
880-22036-17	S-3 (2')	Soluble	Solid	DI Leach	
880-22036-18	S-3 (3')	Soluble	Solid	DI Leach	
880-22036-19	S-4 (0-1')	Soluble	Solid	DI Leach	
880-22036-20	S-4 (1.5')	Soluble	Solid	DI Leach	
880-22036-21	S-4 (2')	Soluble	Solid	DI Leach	
880-22036-22	S-4 (3')	Soluble	Solid	DI Leach	
MB 880-40699/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 40699 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-40699/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40699/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22036-1 MS	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22036-1 MSD	H-1 (0-1')	Soluble	Solid	DI Leach	
880-22036-13 MS	S-2 (2')	Soluble	Solid	DI Leach	
880-22036-13 MSD	S-2 (2')	Soluble	Solid	DI Leach	

Analysis Batch: 40960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22036-1	H-1 (0-1')	Soluble	Solid	300.0	40699
880-22036-2	H-2 (0-1')	Soluble	Solid	300.0	40699
880-22036-3	H-3 (0-1')	Soluble	Solid	300.0	40699
880-22036-4	H-4 (0-1')	Soluble	Solid	300.0	40699
880-22036-5	H-5 (0-1')	Soluble	Solid	300.0	40699
880-22036-6	H-6 (0-1')	Soluble	Solid	300.0	40699
880-22036-7	S-1 (0-1')	Soluble	Solid	300.0	40699
880-22036-8	S-1 (1.5')	Soluble	Solid	300.0	40699
880-22036-11	S-2 (0-1')	Soluble	Solid	300.0	40699
880-22036-12	S-2 (1.5')	Soluble	Solid	300.0	40699
880-22036-13	S-2 (2')	Soluble	Solid	300.0	40699
880-22036-14	S-2 (3')	Soluble	Solid	300.0	40699
880-22036-15	S-3 (0-1')	Soluble	Solid	300.0	40699
880-22036-16	S-3 (1.5')	Soluble	Solid	300.0	40699
880-22036-17	S-3 (2')	Soluble	Solid	300.0	40699
880-22036-18	S-3 (3')	Soluble	Solid	300.0	40699
880-22036-19	S-4 (0-1')	Soluble	Solid	300.0	40699
880-22036-20	S-4 (1.5')	Soluble	Solid	300.0	40699
880-22036-21	S-4 (2')	Soluble	Solid	300.0	40699
880-22036-22	S-4 (3')	Soluble	Solid	300.0	40699
MB 880-40699/1-A	Method Blank	Soluble	Solid	300.0	40699
LCS 880-40699/2-A	Lab Control Sample	Soluble	Solid	300.0	40699
LCSD 880-40699/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40699
880-22036-1 MS	H-1 (0-1')	Soluble	Solid	300.0	40699
880-22036-1 MSD	H-1 (0-1')	Soluble	Solid	300.0	40699
880-22036-13 MS	S-2 (2')	Soluble	Solid	300.0	40699
880-22036-13 MSD	S-2 (2')	Soluble	Solid	300.0	40699

Lab Chronicle

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-1

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 02:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 11:29	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 16:52	CH	EET MID

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

Lab Sample ID: 880-22036-2

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 03:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 12:35	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 17:16	CH	EET MID

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

Lab Sample ID: 880-22036-3

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 03:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 12:57	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 17:25	CH	EET MID

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

Lab Sample ID: 880-22036-4

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 03:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-4

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 13:19	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 17:33	CH	EET MID

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

Lab Sample ID: 880-22036-5

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 04:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 13:42	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 17:41	CH	EET MID

Client Sample ID: H-6 (0-1')

Lab Sample ID: 880-22036-6

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 04:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 14:03	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 18:05	CH	EET MID

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

Lab Sample ID: 880-22036-7

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 04:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 14:26	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22036-7

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 18:13	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-22036-8

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 05:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 14:48	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 18:21	CH	EET MID

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

Lab Sample ID: 880-22036-11

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 15:10	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 18:30	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-22036-12

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 15:33	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 18:38	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (2')

Lab Sample ID: 880-22036-13

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 07:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 16:17	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 18:46	CH	EET MID

Client Sample ID: S-2 (3')

Lab Sample ID: 880-22036-14

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 08:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 16:39	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 19:10	CH	EET MID

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

Lab Sample ID: 880-22036-15

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 08:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 17:01	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 19:18	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-22036-16

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 09:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-22036-16

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 17:23	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 19:43	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-22036-17

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 09:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 17:46	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 19:51	CH	EET MID

Client Sample ID: S-3 (3')

Lab Sample ID: 880-22036-18

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 09:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 18:51	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 19:59	CH	EET MID

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

Lab Sample ID: 880-22036-19

Date Collected: 11/29/22 00:00

Matrix: Solid

Date Received: 11/30/22 09:09

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	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 10:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 18:08	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22036-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 20:07	CH	EET MID

Client Sample ID: S-4 (1.5')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22036-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	40812	12/01/22 14:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41352	12/09/22 10:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/09/22 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 18:29	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 20:15	CH	EET MID

Client Sample ID: S-4 (2')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22036-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40781	12/01/22 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40732	12/02/22 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/02/22 12:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 19:13	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 20:23	CH	EET MID

Client Sample ID: S-4 (3')

Date Collected: 11/29/22 00:00

Date Received: 11/30/22 09:09

Lab Sample ID: 880-22036-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40781	12/01/22 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40732	12/02/22 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40885	12/02/22 12:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41265	12/07/22 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41026	12/05/22 11:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41106	12/06/22 19:35	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40699	11/30/22 12:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40960	12/04/22 20:31	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

Method Summary

Client: Carmona Resources
Project/Site: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Crescent Hale 10 Fed 3H

Job ID: 880-22036-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22036-1	H-1 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-2	H-2 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-3	H-3 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-4	H-4 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-5	H-5 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-6	H-6 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-7	S-1 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-8	S-1 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-11	S-2 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-12	S-2 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-13	S-2 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-14	S-2 (3')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-15	S-3 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-16	S-3 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-17	S-3 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-18	S-3 (3')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-19	S-4 (0-1')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-20	S-4 (1.5')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-21	S-4 (2')	Solid	11/29/22 00:00	11/30/22 09:09
880-22036-22	S-4 (3')	Solid	11/29/22 00:00	11/30/22 09:09

Chain of Custody

Work Order No: 22020

Page 1 of 3

Project Manager	Ashion Thielke	Bill to (if different)	Laci Luig
Company Name	Carmona Resources	Company Name:	Cimarex Energy
Address	310 West Wall Ste 415	Address:	600 N Merrifield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP:	Midland TX 79701
Phone	432-813-5347	Email	laci.luig@coterra.com & ashion.thielke@coterra.com

Work Order Comments	
Program	UST/PT <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project	
Reporting Level	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	Crescent Hale 10 Fed 3H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST				Preservative Codes		
Project Number	1177										None NO	DI Water H ₂ O
Project Location	Eddy Co, NM	Due Date									Cool Cool	MeOH Me
Sampler's Name	AT										HCL, HC	HNO ₃ HN
PO #											H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No	Thermometer ID								H ₃ PO ₄ HP	
Received Intact:	Yes No										NaHSO ₄ NABIS	
Cooler Custody Seals:	Yes No										Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals:	Yes No										Zn Acetate+NaOH Zn	
Total Containers											NaOH+Ascorbic Acid SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Hold	Sample Comments
H-1 (0-1')	11/29/2022		X		Grab/	1	BTEX 8021B		
H-2 (0-1')	11/29/2022		X		Grab/	1	TPH 8015M (GRO + DRO + MRO)		
H-3 (0-1')	11/29/2022		X		Grab/	1	Chloride 300 0		
H-4 (0-1')	11/29/2022		X		Grab/	1			
H-5 (0-1')	11/29/2022		X		Grab/	1			
H-6 (0-1')	11/29/2022		X		Grab/	1			
S-1 (0-1')	11/29/2022		X		Grab/	1			
S-1 (1 5)	11/29/2022		X		Grab/	1			
S-1 (2)	11/29/2022		X		Grab/	1			
S-1 (3)	11/29/2022		X		Grab/	1			

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com



880-22036 Chain of Custody

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		11/20/22			
		909			

Chain of Custody

Work Order No: 22030

Page 2 of 3

Project Manager	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Mainfield St, Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone	432-813-5347	Email	laci.luig@coterra.com & ashton.thielke@coterra.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	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		Crescent Hale 10 Fed 3H		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number	1177	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush											None NO	DI Water H ₂ O			
Project Location	Eddy Co. NM		Due Date											Cool Cool	MeOH Me			
Sampler's Name	AT		TAT starts the day received by the lab if received by 4 30pm										HCL HC	HNO ₃ HN				
PO #:													H ₂ SO ₄ H ₂	NaOH Na				
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No	Wet Ice:	Yes	No							H ₃ PO ₄ HP			
	Received Intact:	Yes	No	Thermometer ID:							NaHSO ₄ NABIS							
	Cooler Custody Seals:	Yes	No	N/A	Correction Factor:							Na ₂ S ₂ O ₃ NaSO ₃						
	Sample Custody Seals:	Yes	No	N/A	Temperature Reading:							Zn Acetate+NaOH Zn						
	Total Containers:				Corrected Temperature:							NaOH+Ascorbic Acid SAPC						
Sample Identification		Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters										
S-2 (0-1')	11/29/2022			X		Grab/	1	BTEX 8021B										
S-2 (1-5')	11/29/2022			X		Grab/	1	TPH 8015M (GRO + DRO + MRO)										
S-2 (2')	11/29/2022			X		Grab/	1	Chloride 300 0										
S-2 (3')	11/29/2022			X		Grab/	1											
S-3 (0-1')	11/29/2022			X		Grab/	1											
S-3 (1-5')	11/29/2022			X		Grab/	1											
S-3 (2')	11/29/2022			X		Grab/	1											
S-3 (3')	11/29/2022			X		Grab/	1											
S-4 (0-1')	11/29/2022			X		Grab/	1											
S-4 (1-5')	11/29/2022			X		Grab/	1											
Sample Identification		Date	Time	Soil	Water	Grab/ Comp	# of Cont	HOLD										Sample Comments

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/30/22			2
3		909			4
5					6

Work Order No: 22036

Page 3 of 3



Project Manager	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Warrenfield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone:	432-813-5347	Email	laci.luig@coterra.com & ashton.thielke@coterra.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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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		Crescent Hale 10 Fed 3H		Turn Around													
Project Number		1177		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush													
Project Location		Eddy Co. NM		Due Date													
Sampler's Name		AT		TAT starts the day received by the lab if received by 4 30pm													
PO #:																	
SAMPLE RECEIPT		Temp Blank.		Yes No		Wet Ice		Yes No									
Received Intact.		Yes No		Thermometer ID													
Cooler Custody Seals.		Yes No N/A		Correction Factor													
Sample Custody Seals		Yes No N/A		Temperature Reading													
Total Containers				Corrected Temperature													
Parameters						PRES. CODE											
BTEx 8021B																	
8015M (GRO + DRO + MRO)																	
Chloride 300 0																	
HOLD																	
						PRESERVATIVE CODES											
						None NO DI Water H ₂ O											
						Cool Cool MeOH Me											
						HCL HC HNO ₃ HN											
						H ₂ SO ₄ H ₂ NaOH Na											
						H ₃ PO ₄ HP											
						NehSO ₄ , NABIS											
						Na ₂ S ₂ O ₃ NaSO ₃											
						Zn Acetate+NaOH Zn											
						NaOH+Ascorbic Acid SAPC											

[illegible]

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		11/30/22	2		
3		909	4		
5			6		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-22036-1

SDG Number: Eddy Co, NM

Login Number: 22036

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 13, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: CRESCENT HALE 10 FED 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/12/23 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/13/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 10 FED 3H	Sampling Condition:	Cool & Intact
Project Number:	1177	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

Sample ID: CS - 1 (2') (H230171-01)

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	01/12/2023	ND	2.07	104	2.00	3.09	
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59	
Total BTX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	160	16.0	01/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	27.2	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (2') (H230171-02)

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	01/12/2023	ND	2.07	104	2.00	3.09	
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	128	16.0	01/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	82.6	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	18.9	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 3 (2') (H230171-03)

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	01/12/2023	ND	2.07	104	2.00	3.09	
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	64.0	16.0	01/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	12.9	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 4 (4') (H230171-04)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	48.0	16.0	01/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	15.0	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 5 (4') (H230171-05)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	48.0	16.0	01/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	17.7	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 6 (4') (H230171-06)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	272	16.0	01/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 7 (4') (H230171-07)

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	01/12/2023	ND	2.07	104	2.00	3.09	
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	176	16.0	01/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	20.7	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 8 (4') (H230171-08)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	144	16.0	01/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (2') (H230171-09)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	208	16.0	01/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	188	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	46.4	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (2') (H230171-10)

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	01/12/2023	ND	2.07	104	2.00	3.09	
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	112	16.0	01/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (2') (H230171-11)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	01/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	15.5	10.0	01/12/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (2') (H230171-12)

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	01/12/2023	ND	2.07	104	2.00	3.09	
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	112	16.0	01/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	145	10.0	01/13/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	34.2	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (4') (H230171-13)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	256	16.0	01/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2023	ND	200	99.8	200	1.91	
DRO >C10-C28*	<10.0	10.0	01/13/2023	ND	195	97.5	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (4') (H230171-14)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	01/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	195	97.6	200	0.623	
DRO >C10-C28*	546	10.0	01/12/2023	ND	181	90.4	200	2.49	
EXT DRO >C28-C36	124	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/12/2023
 Reported: 01/13/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (4') (H230171-15)

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	01/12/2023	ND	2.07	104	2.00	3.09		
Toluene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	2.88		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.74	112	6.00	4.59		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	192	16.0	01/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	195	97.6	200	0.623	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	181	90.4	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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

Chain of Custody

Work Order No: H230171Page 1 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste. 415	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

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

Project Name:	Crescent Hale 10 Fed 3H	Turn Around		Parameters	ANALYSIS REQUEST												Preservative Codes				
Project Number:	1177	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		Due Date: 24 hr TAT starts the day received by the lab, if received by 4:30pm													None: NO	DI Water: H ₂ O		
Project Location:	Eddy Co. NM													Cool: Cool	MeOH: Me						
Sampler's Name:	AT													HCL: HC	HNO ₃ : HN						
PO #:														SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	H ₃ PO ₄ : HP	
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113		Correction Factor:		-0.46		Temperature Reading:		5.86		Corrected Temperature:		5.26		NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	Zn Acetate+NaOH: Zn			
Total Containers:																		NaOH+Ascorbic Acid: SAPC			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
CS-1 (2)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
CS-2 (2)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
CS-3 (2)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
CS-4 (4)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
CS-5 (4)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
CS-6 (4)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
CS-7 (4)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
CS-8 (4)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
SW-1 (2)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				
SW-2 (2)	1.12.2023		X		Comp	1	X	X	X	X	X	X	X	X	X	X	X				

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1-12-23 1340			

Work Order No: HA230171

Page 2 of 2[illegible]



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

January 17, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: CRESCENT HALE 10 FED 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/16/23 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/16/2023
 Reported: 01/17/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (2') (H230212-01)

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	01/16/2023	ND	2.05	102	2.00	5.25	
Toluene*	<0.050	0.050	01/16/2023	ND	2.19	109	2.00	4.29	
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.14	107	2.00	5.35	
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.61	110	6.00	4.99	
Total BTEX	<0.300	0.300	01/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	01/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	201	100	200	7.94	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	216	108	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/16/2023
 Reported: 01/17/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (2') (H230212-02)

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	01/16/2023	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	01/16/2023	ND	2.11	106	2.00	5.33		
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.09	104	2.00	3.80		
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.32	105	6.00	3.93		
Total BTEX	<0.300	0.300	01/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	01/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2023	ND	190	94.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	01/16/2023	ND	179	89.5	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/16/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/16/2023
 Reported: 01/17/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (2') (H230212-03)

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	01/16/2023	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	01/16/2023	ND	2.11	106	2.00	5.33		
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.09	104	2.00	3.80		
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.32	105	6.00	3.93		
Total BTEx	<0.300	0.300	01/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	32.0	16.0	01/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2023	ND	190	94.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	01/16/2023	ND	179	89.5	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/16/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/16/2023
 Reported: 01/17/2023
 Project Name: CRESCENT HALE 10 FED 3H
 Project Number: 1177
 Project Location: CIMAREX- EDDY CO NM

Sampling Date: 01/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (4') (H230212-04)

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	01/16/2023	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	01/16/2023	ND	2.11	106	2.00	5.33		
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.09	104	2.00	3.80		
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.32	105	6.00	3.93		
Total BTEX	<0.300	0.300	01/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	01/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2023	ND	190	94.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	01/16/2023	ND	179	89.5	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/16/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 14230212

Page 7 of 7

[illegible]

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 188022

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 188022
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/1/2023