CARMONA RESOURCES

SITE INFORMATION

Closure Report
CTA State Com #5H (02.13.22)
Incident #: NAPP2205930007
Eddy County, New Mexico
Unit I Sec 32 T18S R30E
32.7019°, -103.9867°

Crude Oil Release
Point of Release: Equipment Malfunction
Release Date: 02/13/2022
Volume Released: 0.5 barrel of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

CARMONA RESOURCES

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

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 415
Midland, Texas 79701

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

TABLE OF CONTENTS

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

April 1, 2022

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

Re: Closure Report
CTA State Com #5H (2.13.22)
Concho Operating, LLC
Incident ID NAPP2205930007
Site Location: Unit I, S32, T18S, R30E
(Lat 32.7019 º, Long -103.9867º)
Eddy County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for CTA State Com #5H (02.13.2022). The site is located at 32.7019º, -103.9867º within Unit I, S32, T18S, 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 release was discovered on February 13, 2022, due to malfunctioning equipment. It resulted in approximately zero-point-five (0.5) barrels of crude oil. Zero (0) barrels were recovered. See figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a 0.50-mile radius of the location. The closest well is located approximately 0.42 miles Southwest of the site in S32, T18S, R30E and was drilled in 1971. The well has a reported depth to groundwater of 161.28' feet below ground surface (ft bgs). A copy of the associated *USGS – National Water Information System* report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

310 West Wall Street, Suite 415
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432.813.1992

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4.0 Site Assessment Activities

On March 7, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of six (6) sample points were advanced to depths ranging from surface – 18" bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil 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. See Table 1 for the analytical results.

Referring to Table 1, the areas of (S-2, H-1, H-2, H-3, and H-4) showed TPH, benzene, total BTEX, and chloride concentrations below the regulatory limits. The area of (S-1) showed high TPH concentrations of 5,940 mg/kg at 0-3" below surface and 161 mg/kg at 6" below surface, then declined with depth.

5.0 Remediation Activities

Carmona Resources personnel were onsite on March 23, 2022, and March 24, 2022, to supervise the remediation activities and collect confirmation samples. The areas were excavated to 1.0' bgs to remove all impacted soils. A total of four (4) confirmation samples were collected (CS-1 through CS-4), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure 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 results of the sampling are summarized in Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

All the final confirmation samples were below the 19.15.29.12 NMAC criteria. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 40 cubic yards of material were excavated and transported offsite for proper disposal

6.0 Conclusions

Based on the analytical results, no further actions are required at the site. The final C-141 is attached, and COG formally requests closure of the spill. If you have any questions regarding this report or need additional information, don't hesitate to contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

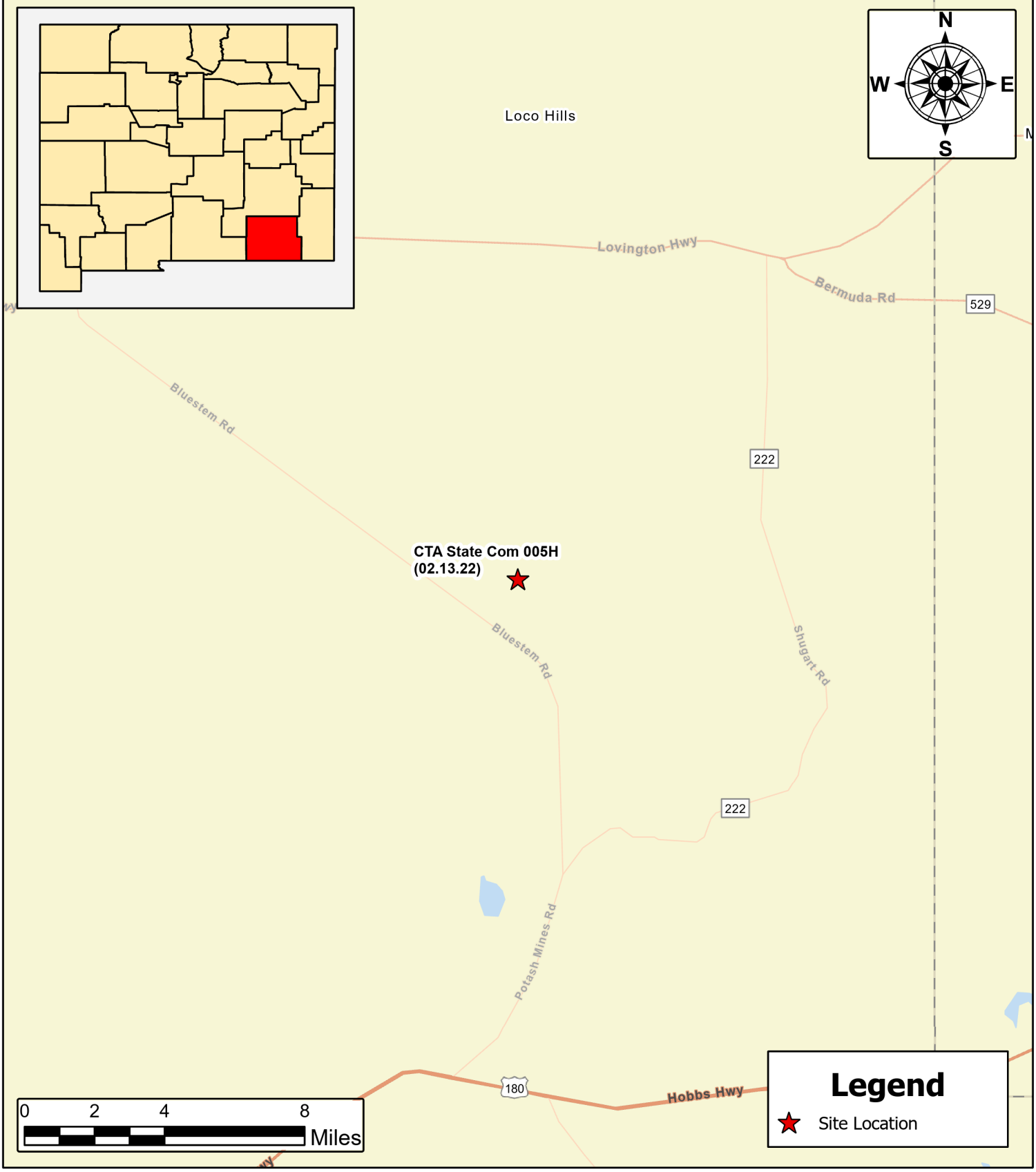
Mike Carmona
Environmental Manager

Clinton Merritt
Sr. Project Manager

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

FIGURES

CARMONA RESOURCES



SITE LOCATION MAP
COG OPERATING
CTA STATE COM 005H (02.13.22)
EDDY COUNTY, NEW MEXICO
32.7019 -103.9867

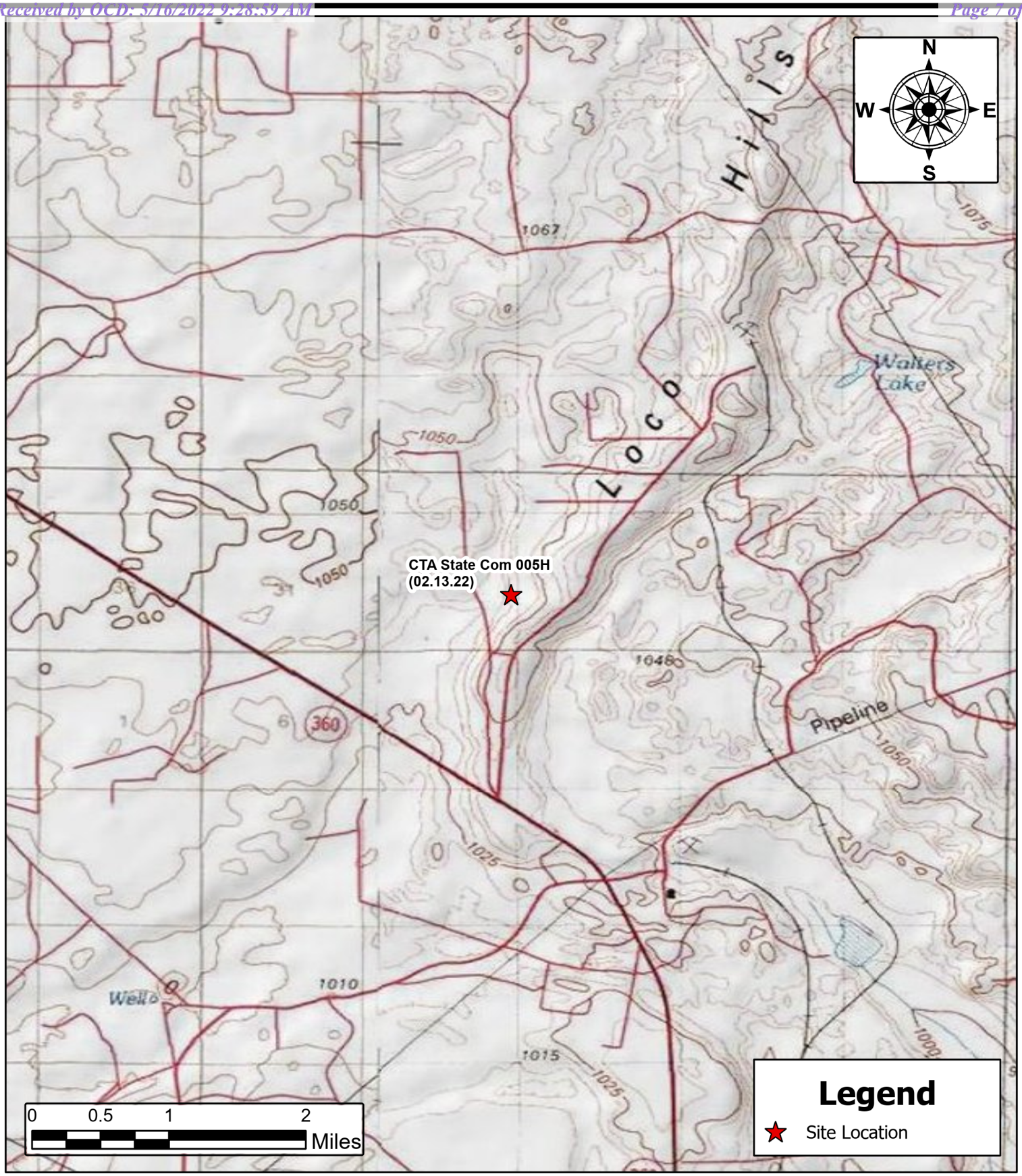
SCALE: As Shown | Date: 3/29/2022

CARMONA RESOURCES

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

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1



TOPOGRAPHIC MAP
COG OPERATING
CTA STATE COM 005H (02.13.22)
EDDY COUNTY, NEW MEXICO
32.7019 -103.9867

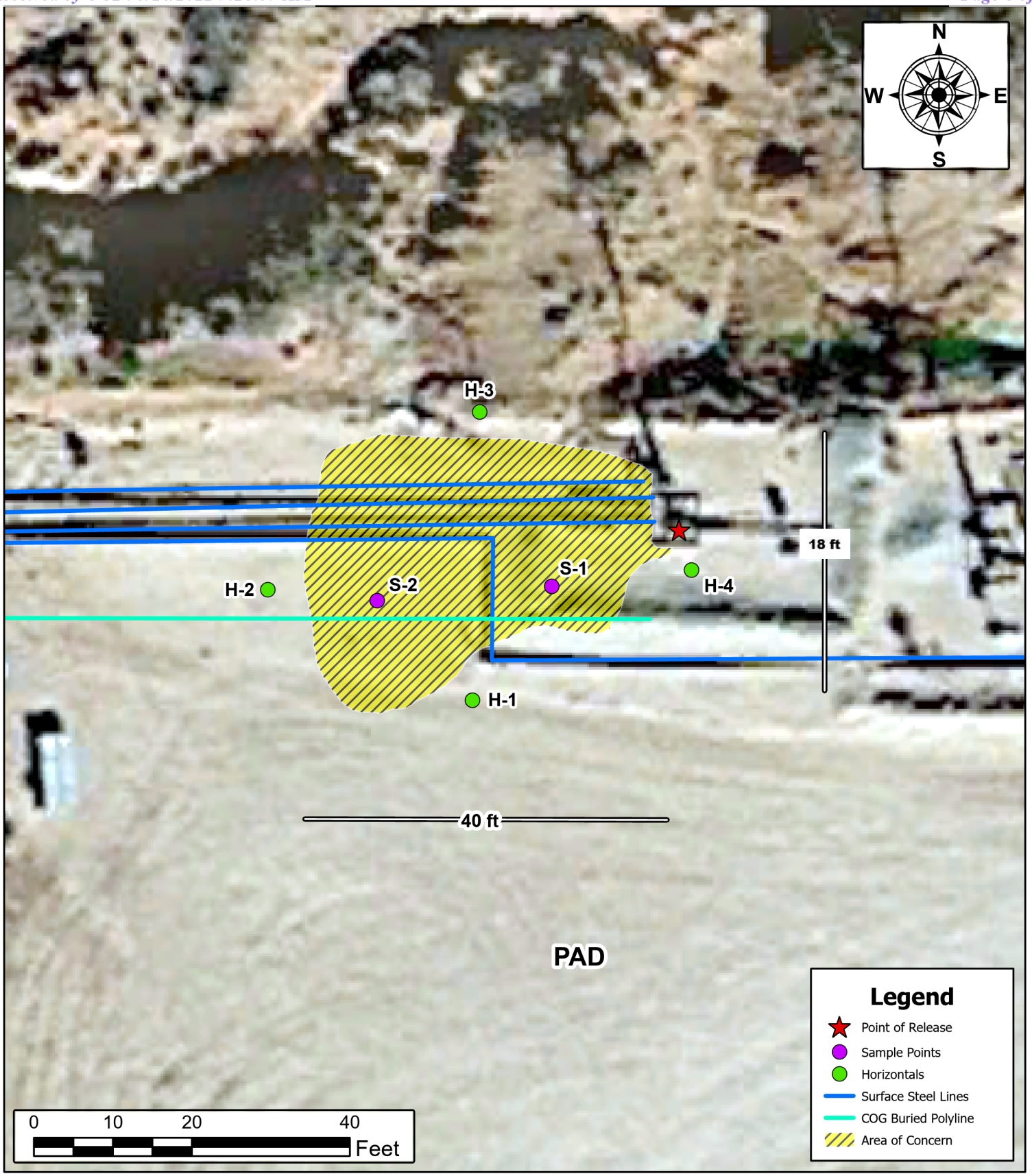
SCALE: As Shown | Date: 3/29/2022

CARMONA RESOURCES

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

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1



SAMPLE LOCATION MAP
COG OPERATING
CTA STATE COM 005H (02.13.22)
EDDY COUNTY, NEW MEXICO
32.7019 -103.9867

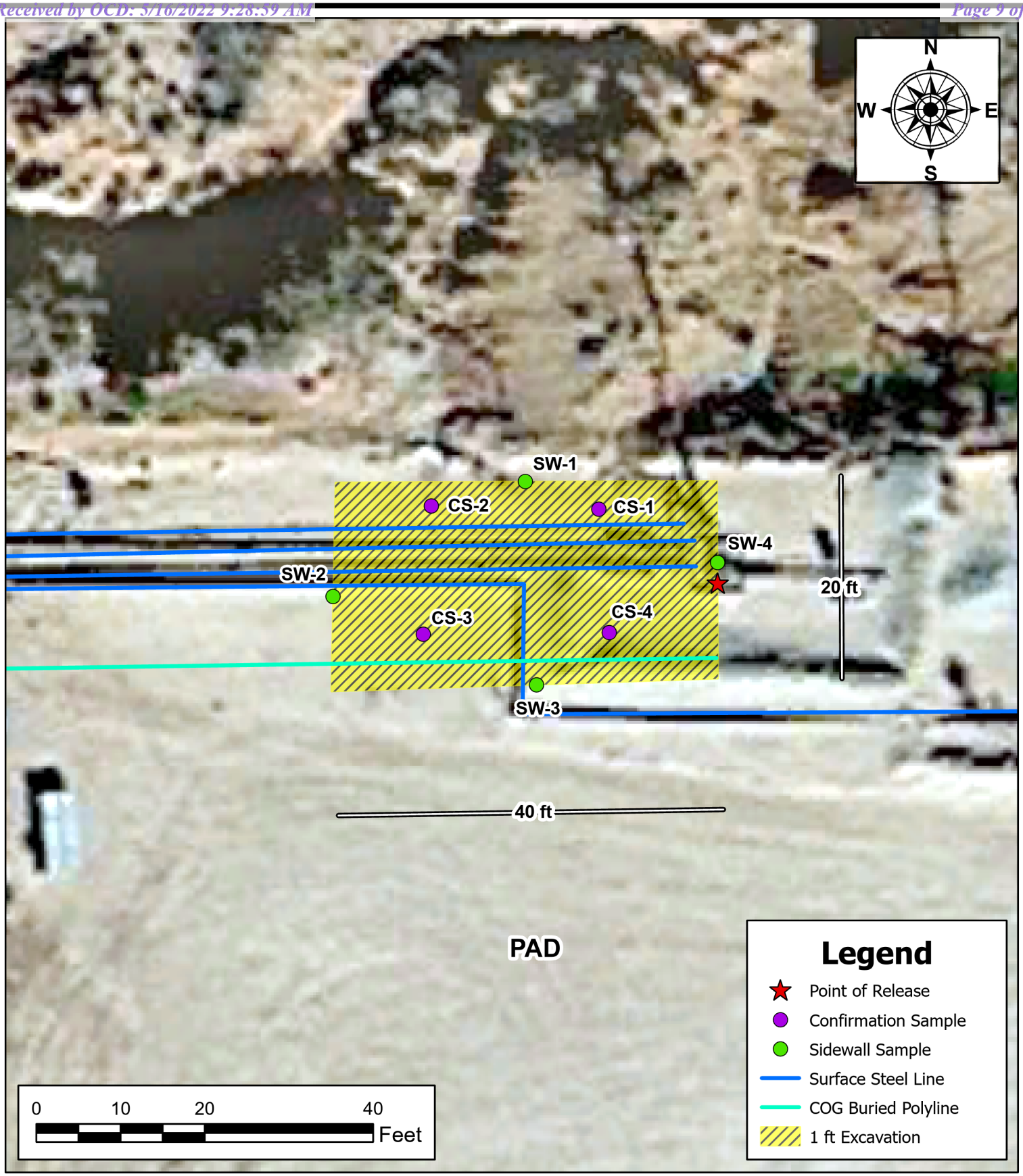
SCALE: As Shown | Date: 3/29/2022

CARMONA RESOURCES

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

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1



EXCAVATION DEPTH MAP
COG OPERATING
CTA STATE COM 005H (02.13.22)
EDDY COUNTY, NEW MEXICO
32.7019 -103.9867

SCALE: As Shown | Date: 3/29/2022

CARMONA RESOURCES

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

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 4
SHEET NUMBER:
1 of 1

APPENDIX A

CARMONA RESOURCES

Table 1
COG
CTA State Com #5H (02.13.22)
Eddy County, New Mexico

Sample ID	Date	Depth (in)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	3/7/2022	0-3	<24.9	**4,960**	**983**	**5,940**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.1
	"	6	<50.0	**161**	<50.0	**161**	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	11.2
	"	12	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	7.79
	"	18	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	16.0
S-2	3/7/2022	0-3	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	27.1
	"	6	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	37.0
	"	12	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	28.2
H-1	3/7/2022	0-6	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	139
H-2	3/7/2022	0-6	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	36.3
H-3	3/7/2022	0-6	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	35.9
H-4	3/7/2022	0-6	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<4.96
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

In-Inches

(S) Sample Point

(H) Horizontal

Removed

Table 2
COG
CTA State Com #5H (02.13.22)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	3/24/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-2	3/24/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-3	3/24/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-4	3/24/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-1	3/24/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-2	3/24/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	3/24/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	3/24/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**	**-**	**-**	**-**	**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

(SW) Sidewall

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: CTA State Com #5H (02.13.22)

County: Eddy County, New Mexico

Description:
View Northwest, areas of Confirmation samples (1-4)

Photograph No. 2

Facility: CTA State Com #5H (02.13.22)

County: Eddy County, New Mexico

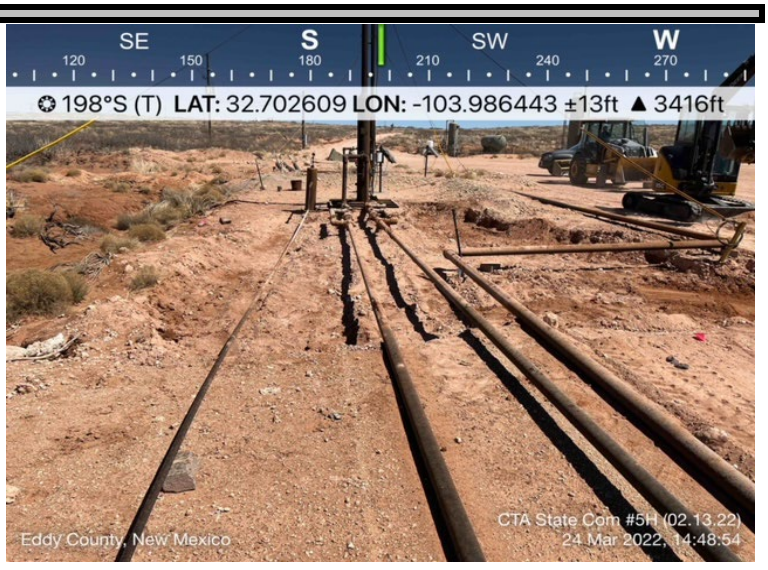
Description:
View North, areas of Confirmation samples (1-4)

Photograph No. 3

Facility: CTA State Com #5H (02.13.22)

County: Eddy County, New Mexico

Description:
View South, areas of Confirmation samples (1-4)



APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

L48 Spill Volume Estimate Form

Facility Name & Number:	CTA State Com #5H
Asset Area:	DBWN
Release Discovery Date & Time:	2.13.22
Release Type:	Oil
Provide any known details about the event:	

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated *Pool* Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	20.0	15.0	0.50	4	300.000	0.010	0.556	0.001	0.557			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
								Total Volume Release:	0.557			

State of New Mexico
Oil Conservation Division

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?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ 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?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ 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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

COG CTA State Com #5H (02.13.22) 48 HR Sampling Notification

CM

Clint Merritt <MerrittC@carmonaresources.com>
To OCD.Enviro@state.nm.us
Cc Harris, Jacqui
Bcc Conner Moehring; Mike Carmona

Reply | Reply All | Forward

Fri 3/18/2022 2:50 PM

Good afternoon,

On behalf of COG, Carmona Resources will be collecting confirmation samples at the below-referenced site on 03/23/2022 at approximately 8:00 a.m. Mountain Time. Please let me know if you have any questions.

COG CTA State Com #5H (02.13.22)
Sec 32 T18S R30E
32.701900°, -103.986676°
Eddy County, New Mexico

Clinton Merritt
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-9044
MerrittC@carmonaresources.com

CARMONA RESOURCES

APPENDIX D

CARMONA RESOURCES

Nearest Water Wells

COG Operating

266.48' - Drilled 1965

161.28' - Drilled 1971

CTA State Com 005H (02.13.22)

Legend

- 0.42 Miles
- 0.50 Mile Radius
- 2.02 Miles
- CTA State Com 005H (02.13.22)

Google Earth

4000 ft

N

LOW KARST

COG Operating

Legend

CTA State Com 005H (02.13.22)

LOW

360

CTA State Com 005H (02.13.22)

Bluestem Rd

N

1 mi

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00767 POD1		CP	ED	3	2		35	18S	30E	599300	3619158*	500		
CP 00818 POD1		CP	LE	1	4		26	18S	30E	599289	3620364*	240		
CP 00819 POD1		CP	LE	2	4		32	18S	30E	594878	3618720*	150		
CP 00853 POD1	O	CP	ED	2	4		28	18S	30E	596472	3620340*	350		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 4

PLSS Search:

Township: 18S **Range:** 30E

***UTM location was derived from PLSS - see Help**

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324154103593301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324154103593301 18S.30E.32.32422

Eddy County, New Mexico
Latitude 32°41'54", Longitude 103°59'33" NAD27
Land-surface elevation 3,374 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) 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
1968-03-08		D	62610		3208.02	NGVD29	1	Z		
1968-03-08		D	62611		3209.55	NAVD88	1	Z		
1968-03-08		D	72019	164.45			1	Z		
1971-04-08		D	62610		3211.19	NGVD29	1	Z		
1971-04-08		D	62611		3212.72	NAVD88	1	Z		
1971-04-08		D	72019	161.28			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

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	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
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-03-06 13:30:07 EST
0.27 0.24 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324333103580001

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324333103580001 18S.30E.21.4200

Eddy County, New Mexico
Latitude 32°43'33", Longitude 103°58'00" NAD27
Land-surface elevation 3,461 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) 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		3193.00	NGVD29	1	Z		
1965-12-09		D	62611		3194.52	NAVD88	1	Z		
1965-12-09		D	72019	266.48			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

Section	Code	Description
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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Data Tips
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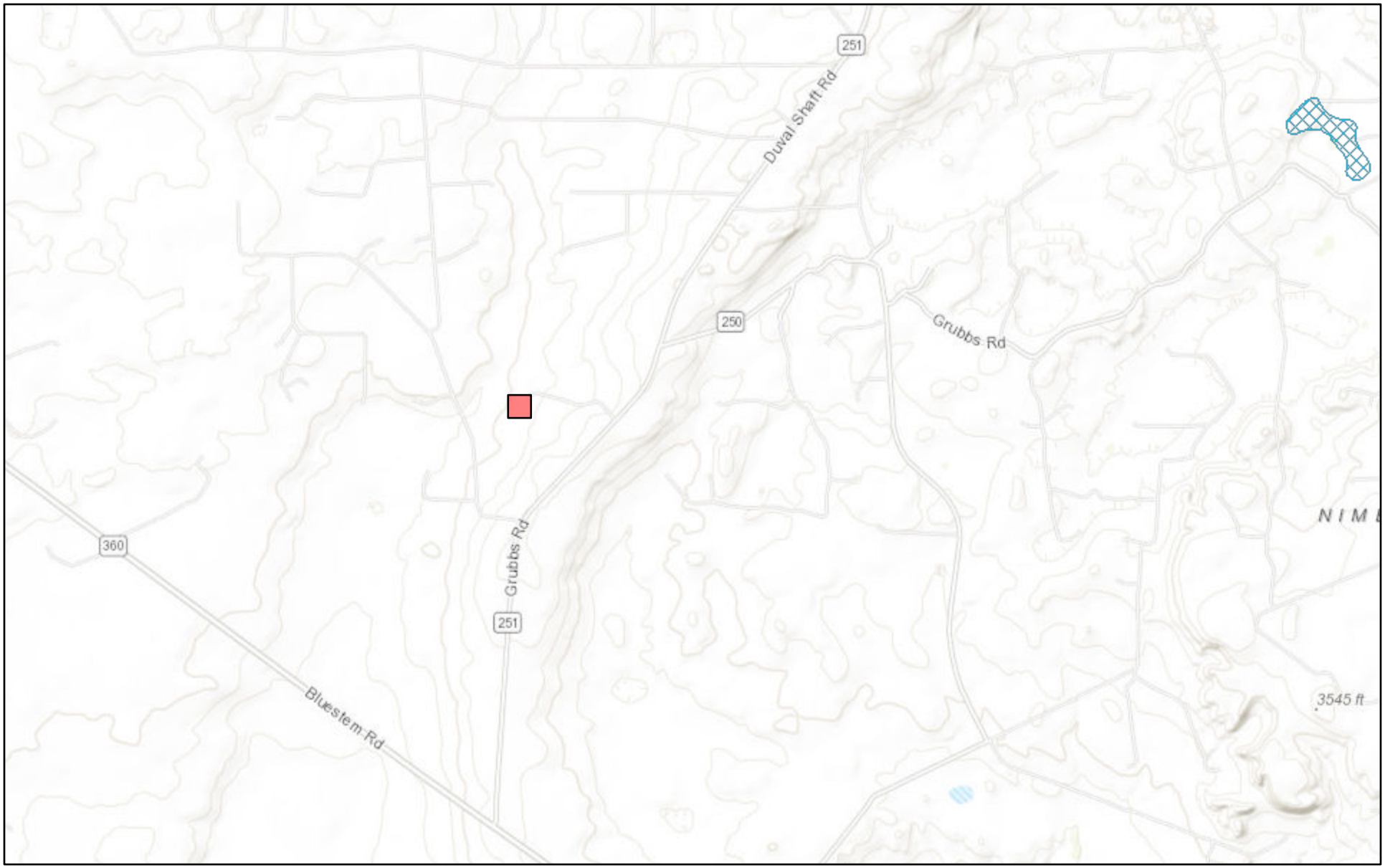
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-03-06 13:34:39 EST
0.3 0.26 nadww02

New Mexico NFHL Data



March 4, 2022

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

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

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12179-1
Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: CTA State Com #5H (02.13.22)

For:
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Conner Moehring

JKramer

Authorized for release by:
3/11/2022 8:57:40 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Laboratory Job ID: 880-12179-1
SDG: Eddy Co, NM

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Job ID: 880-12179-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12179-1

Receipt
The samples were received on 3/8/2022 9:39 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 5.8°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21149 and analytical batch 880-21209 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The MSD was a mis-injection, however the LCS/LCSD was reportable. (880-12179-A-1-G MSD)

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (0-3") (880-12179-5), (LCS 880-21149/1-A), (LCSD 880-21149/2-A), (MB 880-21149/5-A) and (880-12179-A-1-G MSD). Evidence of matrix interferences is not obvious.

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

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12179-1
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		03/09/22 08:30	03/09/22 15:55	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		03/09/22 08:30	03/09/22 15:55	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		03/09/22 08:30	03/09/22 15:55	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		03/09/22 08:30	03/09/22 15:55	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		03/09/22 08:30	03/09/22 15:55	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		03/09/22 08:30	03/09/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*03/09/22 08:30*	*03/09/22 15:55*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/09/22 08:30*	*03/09/22 15:55*	*1*

Method: 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			03/10/22 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5940**		249		mg/Kg			03/11/22 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		03/09/22 09:04	03/10/22 18:52	5
Diesel Range Organics (Over C10-C28)	**4960**		249		mg/Kg		03/09/22 09:04	03/10/22 18:52	5
Oil Range Organics (Over C28-C36)	**983**		249		mg/Kg		03/09/22 09:04	03/10/22 18:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*03/09/22 09:04*	*03/10/22 18:52*	*5*
o-Terphenyl	*93*		*70 - 130*	*03/09/22 09:04*	*03/10/22 18:52*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.1**		4.97		mg/Kg			03/08/22 22:08	1

Client Sample ID: S-1 (6")

Lab Sample ID: 880-12179-2
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 16:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 16:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 16:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/22 08:30	03/09/22 16:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 16:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/22 08:30	03/09/22 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/09/22 08:30*	*03/09/22 16:21*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*03/09/22 08:30*	*03/09/22 16:21*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (6")

Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Lab Sample ID: 880-12179-2
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/10/22 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**161**		50.0		mg/Kg			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 17:51	1
Diesel Range Organics (Over C10-C28)	**161**		50.0		mg/Kg		03/09/22 09:04	03/10/22 17:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*03/09/22 09:04*	*03/10/22 17:51*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/09/22 09:04*	*03/10/22 17:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.2**		5.05		mg/Kg			03/08/22 22:16	1

Client Sample ID: S-1 (12")

Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Lab Sample ID: 880-12179-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 16:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 16:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 16:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/22 08:30	03/09/22 16:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 16:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/22 08:30	03/09/22 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/09/22 08:30*	*03/09/22 16:47*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*03/09/22 08:30*	*03/09/22 16:47*	*1*

Method: 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			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 19:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/09/22 09:04	03/10/22 19:11	1

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (12")

Lab Sample ID: 880-12179-3
Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/22 09:04	03/10/22 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*03/09/22 09:04*	*03/10/22 19:11*	*1*
o-Terphenyl	*88*		*70 - 130*	*03/09/22 09:04*	*03/10/22 19:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.79**		4.97		mg/Kg			03/08/22 22:25	1

Client Sample ID: S-1 (18")

Lab Sample ID: 880-12179-4
Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/09/22 08:30	03/09/22 17:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/09/22 08:30	03/09/22 17:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/09/22 08:30	03/09/22 17:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/09/22 08:30	03/09/22 17:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/09/22 08:30	03/09/22 17:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/09/22 08:30	03/09/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/09/22 08:30*	*03/09/22 17:13*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/09/22 08:30*	*03/09/22 17:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 19:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/09/22 09:04	03/10/22 19:31	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/09/22 09:04	03/10/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*03/09/22 09:04*	*03/10/22 19:31*	*1*
o-Terphenyl	*92*		*70 - 130*	*03/09/22 09:04*	*03/10/22 19:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.0**		5.00		mg/Kg			03/08/22 22:52	1

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (0-3")

Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Lab Sample ID: 880-12179-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 17:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 17:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 17:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/22 08:30	03/09/22 17:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 17:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/22 08:30	03/09/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*278*	*S1+*	*70 - 130*	*03/09/22 08:30*	*03/09/22 17:40*	*1*
1,4-Difluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*03/09/22 08:30*	*03/09/22 17:40*	*1*

Method: 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			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 19:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 19:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*03/09/22 09:04*	*03/10/22 19:52*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/09/22 09:04*	*03/10/22 19:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.1**		5.04		mg/Kg			03/08/22 23:01	1

Client Sample ID: S-2 (6")

Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Lab Sample ID: 880-12179-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/09/22 08:30	03/09/22 18:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/09/22 08:30	03/09/22 18:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/09/22 08:30	03/09/22 18:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/09/22 08:30	03/09/22 18:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/09/22 08:30	03/09/22 18:06	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/09/22 08:30	03/09/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/09/22 08:30*	*03/09/22 18:06*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/09/22 08:30*	*03/09/22 18:06*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (6")

Lab Sample ID: 880-12179-6
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 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			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 20:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*03/09/22 09:04*	*03/10/22 20:12*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/09/22 09:04*	*03/10/22 20:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.0**		5.00		mg/Kg			03/08/22 23:27	1

Client Sample ID: S-2 (12")

Lab Sample ID: 880-12179-7
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 18:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 18:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 18:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/22 08:30	03/09/22 18:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 18:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/22 08:30	03/09/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/09/22 08:30*	*03/09/22 18:33*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/09/22 08:30*	*03/09/22 18:33*	*1*

Method: 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			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 20:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/09/22 09:04	03/10/22 20:33	1

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (12")

Lab Sample ID: 880-12179-7
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/22 09:04	03/10/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*03/09/22 09:04*	*03/10/22 20:33*	*1*
o-Terphenyl	*97*		*70 - 130*	*03/09/22 09:04*	*03/10/22 20:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.2**		4.98		mg/Kg			03/08/22 23:36	1

Client Sample ID: S-2 (18")

Lab Sample ID: 880-12179-8
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 18:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/22 08:30	03/09/22 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 18:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/22 08:30	03/09/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/09/22 08:30*	*03/09/22 18:59*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*03/09/22 08:30*	*03/09/22 18:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 20:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*03/09/22 09:04*	*03/10/22 20:54*	*1*
o-Terphenyl	*90*		*70 - 130*	*03/09/22 09:04*	*03/10/22 20:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.0**		5.05		mg/Kg			03/08/22 23:45	1

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12179-9
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 19:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 19:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 19:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/22 08:30	03/09/22 19:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 19:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/22 08:30	03/09/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*03/09/22 08:30*	*03/09/22 19:25*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/09/22 08:30*	*03/09/22 19:25*	*1*

Method: 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			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 21:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 21:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/09/22 09:04*	*03/10/22 21:15*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/09/22 09:04*	*03/10/22 21:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**139**		4.98		mg/Kg			03/08/22 23:54	1

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-12179-10
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 19:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 19:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/09/22 08:30	03/09/22 19:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/22 08:30	03/09/22 19:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/22 08:30	03/09/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*03/09/22 08:30*	*03/09/22 19:51*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/09/22 08:30*	*03/09/22 19:51*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-12179-10
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 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			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 21:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/09/22 09:04	03/10/22 21:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/22 09:04	03/10/22 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*03/09/22 09:04*	*03/10/22 21:36*	*1*
o-Terphenyl	*104*		*70 - 130*	*03/09/22 09:04*	*03/10/22 21:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.3**		4.98		mg/Kg			03/09/22 00:03	1

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-12179-11
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 07:30	03/10/22 13:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 07:30	03/10/22 13:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 07:30	03/10/22 13:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/22 07:30	03/10/22 13:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/22 07:30	03/10/22 13:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/22 07:30	03/10/22 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/10/22 07:30*	*03/10/22 13:47*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/10/22 07:30*	*03/10/22 13:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 22:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 22:20	1

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-12179-11
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*03/09/22 09:04*	*03/10/22 22:20*	*1*
o-Terphenyl	*90*		*70 - 130*	*03/09/22 09:04*	*03/10/22 22:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.9**		4.95		mg/Kg			03/09/22 00:11	1

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-12179-12
Matrix: Solid
Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/10/22 07:30	03/10/22 14:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/10/22 07:30	03/10/22 14:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/10/22 07:30	03/10/22 14:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/10/22 07:30	03/10/22 14:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/10/22 07:30	03/10/22 14:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/10/22 07:30	03/10/22 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/10/22 07:30*	*03/10/22 14:07*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/10/22 07:30*	*03/10/22 14:07*	*1*

Method: 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			03/10/22 11:16	1

Method: 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			03/11/22 09:47	1

Method: 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		03/09/22 09:04	03/10/22 22:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 22:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/09/22 09:04*	*03/10/22 22:42*	*1*
o-Terphenyl	*95*		*70 - 130*	*03/09/22 09:04*	*03/10/22 22:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			03/09/22 00:20	1

Surrogate Summary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
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)
880-12179-1	S-1 (0-3")	81	81
880-12179-1 MS	S-1 (0-3")	118	97
880-12179-1 MSD	S-1 (0-3")	64 S1-	107
880-12179-2	S-1 (6")	93	118
880-12179-3	S-1 (12")	95	118
880-12179-4	S-1 (18")	92	104
880-12179-5	S-2 (0-3")	278 S1+	153 S1+
880-12179-6	S-2 (6")	106	91
880-12179-7	S-2 (12")	103	93
880-12179-8	S-2 (18")	101	126
880-12179-9	H-1 (0-6")	71	103
880-12179-10	H-2 (0-6")	76	105
880-12179-11	H-3 (0-6")	106	97
880-12179-12	H-4 (0-6")	115	84
880-12215-A-1-D MS	Matrix Spike	104	99
880-12215-A-1-E MSD	Matrix Spike Duplicate	99	97
LCS 880-21140/1-A	Lab Control Sample	103	101
LCS 880-21149/1-A	Lab Control Sample	78	135 S1+
LCSD 880-21140/2-A	Lab Control Sample Dup	101	99
LCSD 880-21149/2-A	Lab Control Sample Dup	81	138 S1+
MB 880-21140/5-A	Method Blank	102	95
MB 880-21149/5-A	Method Blank	46 S1-	100

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)
880-12179-1	S-1 (0-3")	92	93
880-12179-2	S-1 (6")	103	103
880-12179-2 MS	S-1 (6")	95	84
880-12179-2 MSD	S-1 (6")	102	93
880-12179-3	S-1 (12")	94	88
880-12179-4	S-1 (18")	97	92
880-12179-5	S-2 (0-3")	103	101
880-12179-6	S-2 (6")	96	91
880-12179-7	S-2 (12")	102	97
880-12179-8	S-2 (18")	93	90
880-12179-9	H-1 (0-6")	105	102
880-12179-10	H-2 (0-6")	104	104
880-12179-11	H-3 (0-6")	94	90
880-12179-12	H-4 (0-6")	99	95
LCS 880-21188/2-A	Lab Control Sample	108	105
LCSD 880-21188/3-A	Lab Control Sample Dup	95	93
MB 880-21188/1-A	Method Blank	99	101

Surrogate Summary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21140/5-A
Matrix: Solid
Analysis Batch: 21273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 07:30	03/10/22 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 07:30	03/10/22 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 07:30	03/10/22 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/22 07:30	03/10/22 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/22 07:30	03/10/22 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/22 07:30	03/10/22 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/10/22 07:30*	*03/10/22 11:23*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/10/22 07:30*	*03/10/22 11:23*	*1*

Lab Sample ID: LCS 880-21140/1-A
Matrix: Solid
Analysis Batch: 21273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1031		mg/Kg		103	70 - 130
Toluene	0.100	0.1017		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2115		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-21140/2-A
Matrix: Solid
Analysis Batch: 21273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21140

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09642		mg/Kg		96	70 - 130	7	35
Toluene	0.100	0.09504		mg/Kg		95	70 - 130	7	35
Ethylbenzene	0.100	0.09497		mg/Kg		95	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1969		mg/Kg		98	70 - 130	7	35
o-Xylene	0.100	0.09585		mg/Kg		96	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-12215-A-1-D MS
Matrix: Solid
Analysis Batch: 21273

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.0996	0.09790		mg/Kg		98	70 - 130
Toluene	<0.00198	U	0.0996	0.09742		mg/Kg		98	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12215-A-1-D MS | **Client Sample ID: Matrix Spike**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 21273 | **Prep Batch: 21140**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.0996	0.09736		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.199	0.2021		mg/Kg		101	70 - 130
o-Xylene	<0.00198	U	0.0996	0.09834		mg/Kg		99	70 - 130

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

Lab Sample ID: 880-12215-A-1-E MSD | **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 21273 | **Prep Batch: 21140**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0990	0.09953		mg/Kg		101	70 - 130	2	35
Toluene	<0.00198	U	0.0990	0.09910		mg/Kg		100	70 - 130	2	35
Ethylbenzene	<0.00198	U	0.0990	0.09916		mg/Kg		100	70 - 130	2	35
m-Xylene & p-Xylene	<0.00397	U	0.198	0.2084		mg/Kg		105	70 - 130	3	35
o-Xylene	<0.00198	U	0.0990	0.1013		mg/Kg		102	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-21149/5-A | **Client Sample ID: Method Blank**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 21209 | **Prep Batch: 21149**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 15:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 15:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 15:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/22 08:30	03/09/22 15:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:30	03/09/22 15:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/22 08:30	03/09/22 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*46*	*S1-*	*70 - 130*	*03/09/22 08:30*	*03/09/22 15:28*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/09/22 08:30*	*03/09/22 15:28*	*1*

Lab Sample ID: LCS 880-21149/1-A | **Client Sample ID: Lab Control Sample**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 21209 | **Prep Batch: 21149**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1096		mg/Kg		110	70 - 130
Toluene	0.100	0.08923		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2108		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-21149/1-A
Matrix: Solid
Analysis Batch: 21209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21149

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			0.100	0.1028		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-21149/2-A
Matrix: Solid
Analysis Batch: 21209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21149

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1023		mg/Kg		102	70 - 130	7	35
Toluene			0.100	0.08850		mg/Kg		88	70 - 130	1	35
Ethylbenzene			0.100	0.1002		mg/Kg		100	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2106		mg/Kg		105	70 - 130	0	35
o-Xylene			0.100	0.09907		mg/Kg		99	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*
1,4-Difluorobenzene (Surr)	*138*	*S1+*	*70 - 130*

Lab Sample ID: 880-12179-1 MS
Matrix: Solid
Analysis Batch: 21209

Client Sample ID: S-1 (0-3")
Prep Type: Total/NA
Prep Batch: 21149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F1	0.0996	0.05965	F1	mg/Kg		60	70 - 130		
Toluene	<0.00199	U F1 F2	0.0996	0.02300	F1	mg/Kg		23	70 - 130		
Ethylbenzene	<0.00199	U F1 F2	0.0996	0.03772	F1	mg/Kg		38	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.07235	F1	mg/Kg		36	70 - 130		
o-Xylene	<0.00199	U F1 F2	0.0996	<0.00199	U F1	mg/Kg		1	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-12179-1 MSD
Matrix: Solid
Analysis Batch: 21209

Client Sample ID: S-1 (0-3")
Prep Type: Total/NA
Prep Batch: 21149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00199	U F1 F2	0.0990	<0.00198	U F1 F2	mg/Kg		0.5	70 - 130	191	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	<0.00198	U F1 F2	mg/Kg		1	70 - 130	188	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	<0.00396	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00199	U F1 F2	0.0990	<0.00198	U F1 F2	mg/Kg		0.4	70 - 130	68	35

QC Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12179-1 MSD
Matrix: Solid
Analysis Batch: 21209

Client Sample ID: S-1 (0-3")
Prep Type: Total/NA
Prep Batch: 21149

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-21188/1-A
Matrix: Solid
Analysis Batch: 21299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21188

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		03/09/22 09:04	03/10/22 16:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 16:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/22 09:04	03/10/22 16:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/09/22 09:04	03/10/22 16:46	1
o-Terphenyl	101		70 - 130	03/09/22 09:04	03/10/22 16:46	1

Lab Sample ID: LCS 880-21188/2-A
Matrix: Solid
Analysis Batch: 21299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21188

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	823.3		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-21188/3-A
Matrix: Solid
Analysis Batch: 21299

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21188

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	725.8		mg/Kg		73	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	901.4		mg/Kg		90	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	93		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12179-2 MS
Matrix: Solid
Analysis Batch: 21299

Client Sample ID: S-1 (6")
Prep Type: Total/NA
Prep Batch: 21188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1193		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	161		998	1155		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: 880-12179-2 MSD
Matrix: Solid
Analysis Batch: 21299

Client Sample ID: S-1 (6")
Prep Type: Total/NA
Prep Batch: 21188

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	998	1136		mg/Kg		112	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	161		998	1285		mg/Kg		113	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21127/1-A
Matrix: Solid
Analysis Batch: 21162

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			03/08/22 19:55	1

Lab Sample ID: LCS 880-21127/2-A
Matrix: Solid
Analysis Batch: 21162

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-21127/3-A
Matrix: Solid
Analysis Batch: 21162

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	250.8		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-12179-3 MS
Matrix: Solid
Analysis Batch: 21162

Client Sample ID: S-1 (12")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	7.79		249	273.2		mg/Kg		107	90 - 110		

Lab Sample ID: 880-12179-3 MSD
Matrix: Solid
Analysis Batch: 21162

Client Sample ID: S-1 (12")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.79		249	259.9		mg/Kg					

QC Association Summary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 21140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-11	H-3 (0-6")	Total/NA	Solid	5035	
880-12179-12	H-4 (0-6")	Total/NA	Solid	5035	
MB 880-21140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12215-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-12215-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 21149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-1	S-1 (0-3")	Total/NA	Solid	5035	
880-12179-2	S-1 (6")	Total/NA	Solid	5035	
880-12179-3	S-1 (12")	Total/NA	Solid	5035	
880-12179-4	S-1 (18")	Total/NA	Solid	5035	
880-12179-5	S-2 (0-3")	Total/NA	Solid	5035	
880-12179-6	S-2 (6")	Total/NA	Solid	5035	
880-12179-7	S-2 (12")	Total/NA	Solid	5035	
880-12179-8	S-2 (18")	Total/NA	Solid	5035	
880-12179-9	H-1 (0-6")	Total/NA	Solid	5035	
880-12179-10	H-2 (0-6")	Total/NA	Solid	5035	
MB 880-21149/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21149/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21149/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12179-1 MS	S-1 (0-3")	Total/NA	Solid	5035	
880-12179-1 MSD	S-1 (0-3")	Total/NA	Solid	5035	

Analysis Batch: 21209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-1	S-1 (0-3")	Total/NA	Solid	8021B	21149
880-12179-2	S-1 (6")	Total/NA	Solid	8021B	21149
880-12179-3	S-1 (12")	Total/NA	Solid	8021B	21149
880-12179-4	S-1 (18")	Total/NA	Solid	8021B	21149
880-12179-5	S-2 (0-3")	Total/NA	Solid	8021B	21149
880-12179-6	S-2 (6")	Total/NA	Solid	8021B	21149
880-12179-7	S-2 (12")	Total/NA	Solid	8021B	21149
880-12179-8	S-2 (18")	Total/NA	Solid	8021B	21149
880-12179-9	H-1 (0-6")	Total/NA	Solid	8021B	21149
880-12179-10	H-2 (0-6")	Total/NA	Solid	8021B	21149
MB 880-21149/5-A	Method Blank	Total/NA	Solid	8021B	21149
LCS 880-21149/1-A	Lab Control Sample	Total/NA	Solid	8021B	21149
LCSD 880-21149/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21149
880-12179-1 MS	S-1 (0-3")	Total/NA	Solid	8021B	21149
880-12179-1 MSD	S-1 (0-3")	Total/NA	Solid	8021B	21149

Analysis Batch: 21273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-11	H-3 (0-6")	Total/NA	Solid	8021B	21140
880-12179-12	H-4 (0-6")	Total/NA	Solid	8021B	21140
MB 880-21140/5-A	Method Blank	Total/NA	Solid	8021B	21140
LCS 880-21140/1-A	Lab Control Sample	Total/NA	Solid	8021B	21140
LCSD 880-21140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21140

QC Association Summary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 21273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12215-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	21140
880-12215-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21140

Analysis Batch: 21291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-1	S-1 (0-3")	Total/NA	Solid	Total BTEX	
880-12179-2	S-1 (6")	Total/NA	Solid	Total BTEX	
880-12179-3	S-1 (12")	Total/NA	Solid	Total BTEX	
880-12179-4	S-1 (18")	Total/NA	Solid	Total BTEX	
880-12179-5	S-2 (0-3")	Total/NA	Solid	Total BTEX	
880-12179-6	S-2 (6")	Total/NA	Solid	Total BTEX	
880-12179-7	S-2 (12")	Total/NA	Solid	Total BTEX	
880-12179-8	S-2 (18")	Total/NA	Solid	Total BTEX	
880-12179-9	H-1 (0-6")	Total/NA	Solid	Total BTEX	
880-12179-10	H-2 (0-6")	Total/NA	Solid	Total BTEX	
880-12179-11	H-3 (0-6")	Total/NA	Solid	Total BTEX	
880-12179-12	H-4 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-1	S-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-12179-2	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-12179-3	S-1 (12")	Total/NA	Solid	8015NM Prep	
880-12179-4	S-1 (18")	Total/NA	Solid	8015NM Prep	
880-12179-5	S-2 (0-3")	Total/NA	Solid	8015NM Prep	
880-12179-6	S-2 (6")	Total/NA	Solid	8015NM Prep	
880-12179-7	S-2 (12")	Total/NA	Solid	8015NM Prep	
880-12179-8	S-2 (18")	Total/NA	Solid	8015NM Prep	
880-12179-9	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-12179-10	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-12179-11	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-12179-12	H-4 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-21188/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21188/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21188/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12179-2 MS	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-12179-2 MSD	S-1 (6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-1	S-1 (0-3")	Total/NA	Solid	8015B NM	21188
880-12179-2	S-1 (6")	Total/NA	Solid	8015B NM	21188
880-12179-3	S-1 (12")	Total/NA	Solid	8015B NM	21188
880-12179-4	S-1 (18")	Total/NA	Solid	8015B NM	21188
880-12179-5	S-2 (0-3")	Total/NA	Solid	8015B NM	21188
880-12179-6	S-2 (6")	Total/NA	Solid	8015B NM	21188
880-12179-7	S-2 (12")	Total/NA	Solid	8015B NM	21188
880-12179-8	S-2 (18")	Total/NA	Solid	8015B NM	21188
880-12179-9	H-1 (0-6")	Total/NA	Solid	8015B NM	21188

QC Association Summary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 21299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-10	H-2 (0-6")	Total/NA	Solid	8015B NM	21188
880-12179-11	H-3 (0-6")	Total/NA	Solid	8015B NM	21188
880-12179-12	H-4 (0-6")	Total/NA	Solid	8015B NM	21188
MB 880-21188/1-A	Method Blank	Total/NA	Solid	8015B NM	21188
LCS 880-21188/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21188
LCSD 880-21188/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21188
880-12179-2 MS	S-1 (6")	Total/NA	Solid	8015B NM	21188
880-12179-2 MSD	S-1 (6")	Total/NA	Solid	8015B NM	21188

Analysis Batch: 21367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-1	S-1 (0-3")	Total/NA	Solid	8015 NM	
880-12179-2	S-1 (6")	Total/NA	Solid	8015 NM	
880-12179-3	S-1 (12")	Total/NA	Solid	8015 NM	
880-12179-4	S-1 (18")	Total/NA	Solid	8015 NM	
880-12179-5	S-2 (0-3")	Total/NA	Solid	8015 NM	
880-12179-6	S-2 (6")	Total/NA	Solid	8015 NM	
880-12179-7	S-2 (12")	Total/NA	Solid	8015 NM	
880-12179-8	S-2 (18")	Total/NA	Solid	8015 NM	
880-12179-9	H-1 (0-6")	Total/NA	Solid	8015 NM	
880-12179-10	H-2 (0-6")	Total/NA	Solid	8015 NM	
880-12179-11	H-3 (0-6")	Total/NA	Solid	8015 NM	
880-12179-12	H-4 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 21127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-1	S-1 (0-3")	Soluble	Solid	DI Leach	
880-12179-2	S-1 (6")	Soluble	Solid	DI Leach	
880-12179-3	S-1 (12")	Soluble	Solid	DI Leach	
880-12179-4	S-1 (18")	Soluble	Solid	DI Leach	
880-12179-5	S-2 (0-3")	Soluble	Solid	DI Leach	
880-12179-6	S-2 (6")	Soluble	Solid	DI Leach	
880-12179-7	S-2 (12")	Soluble	Solid	DI Leach	
880-12179-8	S-2 (18")	Soluble	Solid	DI Leach	
880-12179-9	H-1 (0-6")	Soluble	Solid	DI Leach	
880-12179-10	H-2 (0-6")	Soluble	Solid	DI Leach	
880-12179-11	H-3 (0-6")	Soluble	Solid	DI Leach	
880-12179-12	H-4 (0-6")	Soluble	Solid	DI Leach	
MB 880-21127/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21127/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21127/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12179-3 MS	S-1 (12")	Soluble	Solid	DI Leach	
880-12179-3 MSD	S-1 (12")	Soluble	Solid	DI Leach	

Analysis Batch: 21162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-1	S-1 (0-3")	Soluble	Solid	300.0	21127
880-12179-2	S-1 (6")	Soluble	Solid	300.0	21127
880-12179-3	S-1 (12")	Soluble	Solid	300.0	21127

QC Association Summary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Analysis Batch: 21162 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12179-4	S-1 (18")	Soluble	Solid	300.0	21127
880-12179-5	S-2 (0-3")	Soluble	Solid	300.0	21127
880-12179-6	S-2 (6")	Soluble	Solid	300.0	21127
880-12179-7	S-2 (12")	Soluble	Solid	300.0	21127
880-12179-8	S-2 (18")	Soluble	Solid	300.0	21127
880-12179-9	H-1 (0-6")	Soluble	Solid	300.0	21127
880-12179-10	H-2 (0-6")	Soluble	Solid	300.0	21127
880-12179-11	H-3 (0-6")	Soluble	Solid	300.0	21127
880-12179-12	H-4 (0-6")	Soluble	Solid	300.0	21127
MB 880-21127/1-A	Method Blank	Soluble	Solid	300.0	21127
LCS 880-21127/2-A	Lab Control Sample	Soluble	Solid	300.0	21127
LCSD 880-21127/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21127
880-12179-3 MS	S-1 (12")	Soluble	Solid	300.0	21127
880-12179-3 MSD	S-1 (12")	Soluble	Solid	300.0	21127

Lab Chronicle

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12179-1

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

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	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 15:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		5			21299	03/10/22 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 22:08	CH	XEN MID

Client Sample ID: S-1 (6")

Lab Sample ID: 880-12179-2

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 16:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 17:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 22:16	CH	XEN MID

Client Sample ID: S-1 (12")

Lab Sample ID: 880-12179-3

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

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	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 16:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 22:25	CH	XEN MID

Client Sample ID: S-1 (18")

Lab Sample ID: 880-12179-4

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 17:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (18")

Lab Sample ID: 880-12179-4

Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 22:52	CH	XEN MID

Client Sample ID: S-2 (0-3")

Lab Sample ID: 880-12179-5

Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 17:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 23:01	CH	XEN MID

Client Sample ID: S-2 (6")

Lab Sample ID: 880-12179-6

Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

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	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 18:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 23:27	CH	XEN MID

Client Sample ID: S-2 (12")

Lab Sample ID: 880-12179-7

Date Collected: 03/07/22 00:00
Date Received: 03/08/22 09:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 18:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 20:33	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (12")

Lab Sample ID: 880-12179-7

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

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	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 23:36	CH	XEN MID

Client Sample ID: S-2 (18")

Lab Sample ID: 880-12179-8

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 18:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 20:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 23:45	CH	XEN MID

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

Lab Sample ID: 880-12179-9

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

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	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 19:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 21:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/08/22 23:54	CH	XEN MID

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-12179-10

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

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	21149	03/09/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21209	03/09/22 19:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 21:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/09/22 00:03	CH	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-12179-11

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	21140	03/10/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21273	03/10/22 13:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 22:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/09/22 00:11	CH	XEN MID

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-12179-12

Date Collected: 03/07/22 00:00
Matrix: Solid
Date Received: 03/08/22 09:39

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	21140	03/10/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21273	03/10/22 14:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21291	03/10/22 11:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21367	03/11/22 09:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21188	03/09/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21299	03/10/22 22:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	21127	03/08/22 11:17	CH	XEN MID
Soluble	Analysis	300.0		1			21162	03/09/22 00:20	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
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	T104704400-21-22	06-30-22

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	OII 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: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

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

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

Sample Summary

Client: Carmona Resources
Project/Site: CTA State Com #5H (02.13.22)

Job ID: 880-12179-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12179-1	S-1 (0-3")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-2	S-1 (6")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-3	S-1 (12")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-4	S-1 (18")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-5	S-2 (0-3")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-6	S-2 (6")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-7	S-2 (12")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-8	S-2 (18")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-9	H-1 (0-6")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-10	H-2 (0-6")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-11	H-3 (0-6")	Solid	03/07/22 00:00	03/08/22 09:39
880-12179-12	H-4 (0-6")	Solid	03/07/22 00:00	03/08/22 09:39

Work Order No: 12179

Page 1 of 2

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name.	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	CTA State Com #5H (02 13 22)	Turn Around			
Project Number	1025	☐ Routine	☑ Rush		
Project Location	Eddy Co, NM	Due Date	48 Hrs		
Sampler's Name	CRM	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	IR8	
Cooler Custody Seals.	Yes No (N/A)		Correction Factor	-.1	
Sample Custody Seals	Yes No (N/A)		Temperature Reading	5.9	
Total Containers			Corrected Temperature	5.8	

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
S-1 (0-3")	3/7/2022		X		G	1		X	X	X		
S-1 (6")	3/7/2022		X		G	1		X	X	X		
S-1 (12")	3/7/2022		X		G	1		X	X	X		
S-1 (18")	3/7/2022		X		G	1		X	X	X		
S-2 (0-3")	3/7/2022		X		G	1		X	X	X		
S-2 (6")	3/7/2022		X		G	1		X	X	X		
S-2 (12")	3/7/2022		X		G	1		X	X	X		
S-2 (18")	3/7/2022		X		G	1		X	X	X		
H-1 (0-6")	3/7/2022		X		G	1		X	X	X		
H-2 (0-6")	3/7/2022		X		G	1		X	X	X		

880-12179 Chain of Custody

Comments:

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Kaui Ann	Lorena R	3/8/22 9:39	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020 1

Work Order No: 12179

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	CTA State Com #5H (02 13 22)	Turn Around	
Project Number	1025	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date	48 Hrs
Sampler's Name	CRM	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	IR8
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.1
Sample Custody Seals	Yes No (N/A)	Temperature Reading	5.9
Total Containers		Corrected Temperature.	5.8

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD
H-3 (0-6")	3/7/2022		X		G	1		X	X	X	
H-4 (0-6")	3/7/2022		X		G	1		X	X	X	

Preservative Codes

None NO — DI Water H_2O

Cool Cool — MeOH Me

HCL HC — HNO_3 HN

H_2S0_4 H_2 — NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Comments:

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Kalli Mmi	[signature]	3/8/22 9.39	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-12179-1
SDG Number: Eddy Co, NM

Login Number: 12179
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	

CARDINAL Laboratories

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

March 25, 2022

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: CTA STATE COM #5H

Enclosed are the results of analyses for samples received by the laboratory on 03/24/22 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	CTA STATE COM #5H	Sampling Condition:	Cool & Intact
Project Number:	1025 (02.13.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 1 (1') (H221160-01)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane *109 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *109 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	CTA STATE COM #5H	Sampling Condition:	Cool & Intact
Project Number:	1025 (02.13.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 2 (1') (H221160-02)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane *103 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *104 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	CTA STATE COM #5H	Sampling Condition:	Cool & Intact
Project Number:	1025 (02.13.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 3 (1') (H221160-03)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.9-140*

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane *102 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *99.8 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	CTA STATE COM #5H	Sampling Condition:	Cool & Intact
Project Number:	1025 (02.13.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 4 (1') (H221160-04)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane *107 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *105 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	CTA STATE COM #5H	Sampling Condition:	Cool & Intact
Project Number:	1025 (02.13.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 1 (1') (H221160-05)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.9-140*

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane *111 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *111 %* *59.5-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	CTA STATE COM #5H	Sampling Condition:	Cool & Intact
Project Number:	1025 (02.13.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 2 (1') (H221160-06)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.9-140*

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane *110 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *110 %* *59.5-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	CTA STATE COM #5H	Sampling Condition:	Cool & Intact
Project Number:	1025 (02.13.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 3 (1') (H221160-07)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane *113 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *112 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	CTA STATE COM #5H	Sampling Condition:	Cool & Intact
Project Number:	1025 (02.13.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 4 (1') (H221160-08)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane *112 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *111 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H221100-8

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Jacqui Harris
Company Name:	Carmona Resources	Company Name:	COG
Address:	310 W Wall St Ste 415	Address:	15 W London Rd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Loving,NM 88256
Phone:	432-813-6823	Email:	jacquiharris@conocophillips.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	CTA State Com #5H (02.13.22)
Project Number:	1025
Project Location	Eddy Co, NM
Sampler's Name:	CCM
PO #:	

Turn Around

☐ Routine ☑ Rush

Due Date: 24 Hrs

TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	113
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.5
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4°C
Total Containers:		Corrected Temperature:	5.1°C

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD
CS-1(1')	3/24/2022		X		Comp	1		X	X	X	
CS-2(1')	3/24/2022		X		Comp	1		X	X	X	
CS-3(1')	3/24/2022		X		Comp	1		X	X	X	
CS-4(1')	3/24/2022		X		Comp	1		X	X	X	
SW-1(1')	3/24/2022		X		Comp	1		X	X	X	
SW-2(1')	3/24/2022		X		Comp	1		X	X	X	
SW-3(1')	3/24/2022		X		Comp	1		X	X	X	
SW-4(1')	3/24/2022										

Sample Comments

Comments: Rush!

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/23 15:00	2		
3			4		
5			6		

Revised Date 05012020 Rev.

State of New Mexico
Oil Conservation Division

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: Robert Hamlet Date: 6/22/2022

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: Robert Hamlet Date: 6/22/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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 106944

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 106944
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2205930007 CTA STATE COM 005H, thank you. This closure is approved.	6/22/2022