

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

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

Received by OCD: 3/26/2024 8:10:05 AM		Page 3 of 16								
Convert irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated Pool Area (sq. 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 Spilled Liquid other than Oil (bbl.)
Rectangle A	30	20	0.1	600.00	1.16	0.00	1.16		0.00	1.16
Rectangle B	15	10	0.1	150.00	0.22	0.00	0.22		0.00	0.22
Rectangle C	26	6	0.1	156.00	0.14	0.00	0.14		0.00	0.14
Rectangle D	25	15	0.1	375.00	0.72	0.00	0.72		0.00	0.72
Rectangle E	10	10	0.2	100.00	0.30	0.00	0.30		0.00	0.30
Rectangle F	30	10	2.5	300.00	11.13	0.01	11.24		0.00	11.24
Rectangle G	6	6	1.5	36.00	0.80	0.01	0.81		0.00	0.81
Rectangle H	25	15	1.5	375.00	8.34	0.01	8.40		0.00	8.40
Rectangle I				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00		0.00	0.00
Total Surface Pool Volume Released, Release to Soil/Caliche:							22.9823		0.0000	22.9823
Released to Imaging: 5/3/2024 12:21:16 PM										



## SITE INFORMATION

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**Closure Report**  
**Nocaster 19 Federal 004H (01.14.24)**  
**Lea County, New Mexico**  
**Incident ID: NAPP2402931812**  
**Unit P Sec 19 T23S R34E**  
**32.2837°, -103.5033°**

### **Crude Oil and Produced Water Release**

**Point of Release: Frozen ball valve separating going in the heater treater.**

**Release Date: 01.14.24**

**Volume Released: 18.3858 Barrels of Crude Oil and 4.5965 Barrels of Produced Water**

**Volume Recovered: 10 Barrels of Crude Oil and 2.5 Barrels of Produced Water**

**CARMONA RESOURCES**



**Prepared for:**  
**Concho Operating, LLC**  
**600 West Illinois Avenue**  
**Midland, Texas 79701**

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





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March 21, 2024

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

**Re: Closure Report**  
**Nocaster 19 Federal 004H (01.14.24)**  
**Concho Operating, LLC**  
**Incident ID: NAPP2402931812**  
**Site Location: Unit P, S19, T23S, R34E**  
**(Lat 32.2837°, Long -103.5033°)**  
**Lea County, New Mexico**

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Nocaster 19 Federal 004H (01.14.24). The site is located at 32.2837°, -103.5033° within Unit P, S19, T23S, and R34E, in Lea County, New Mexico (Figures 1 and 2).

### **1.0 Site Information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on January 14, 2024, due to a frozen ball valve separating going into the heater treater. This released eighteen point three eight five eight (18.3858) barrels of crude oil and ten (10) barrels of produced water, with four-point five nine six five (4.5965) barrels of crude oil and two point five (2.5) barrels of produced water recovered. Refer to 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 are no known water sources within a 0.50-mile radius of the location. The nearest groundwater determination bore is located approximately 0.52 miles East of the site in S20, T23S, R34E and was drilled in 2022. The well was drilled to a depth of 120' below ground surface (ft bgs), and no water was detected after 72 hours of drilling operations. A copy of the associated Summary report is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12, 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 500  
Midland, Texas 79701  
432.813.1992



## **4.0 Site Assessment Activities**

### **Initial Assessment Activities**

On January 24, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of four (4) vertical sample points and three (3) horizontal sample points were advanced to depths ranging from the surface to 4.0' bgs inside the release area to assess the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix D. See Table 1 for the analytical results.

### **Stockpile Testing**

On February 7, 2024, Carmona Resources, LLC collected a five-point composite sample (labeled BF SP) to document and confirm that the soil used to backfill the following excavation was clean material. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix D. Refer to Table 1.

## **5.0 Remediation Activities**

Carmona Resources personnel were on site to oversee excavation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via the NMOCD web portal on February 7, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of nineteen (19) confirmation floor samples (CS-1 through CS-19) and nine (9) sidewall samples (SW-1 through SW-9) were collected every 200 square feet to ensure the proper removal of the contaminated soils. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. All collected samples were analyzed for TPH 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. Refer to Table 2. The excavation depths and confirmation sample locations are shown in Figure 4A&B.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 1,800 square feet of contamination was remediated, resulting in 140 cubic yards of material excavated and transported offsite for proper disposal.

CARMONA RESOURCES



### **6.0 Conclusions**

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

Sincerely,

**Carmona Resources, LLC**

Ashton Thielke  
Sr. Project Manager

Conner Moehring  
Sr. Project Manager

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

## FIGURES

CARMONA RESOURCES





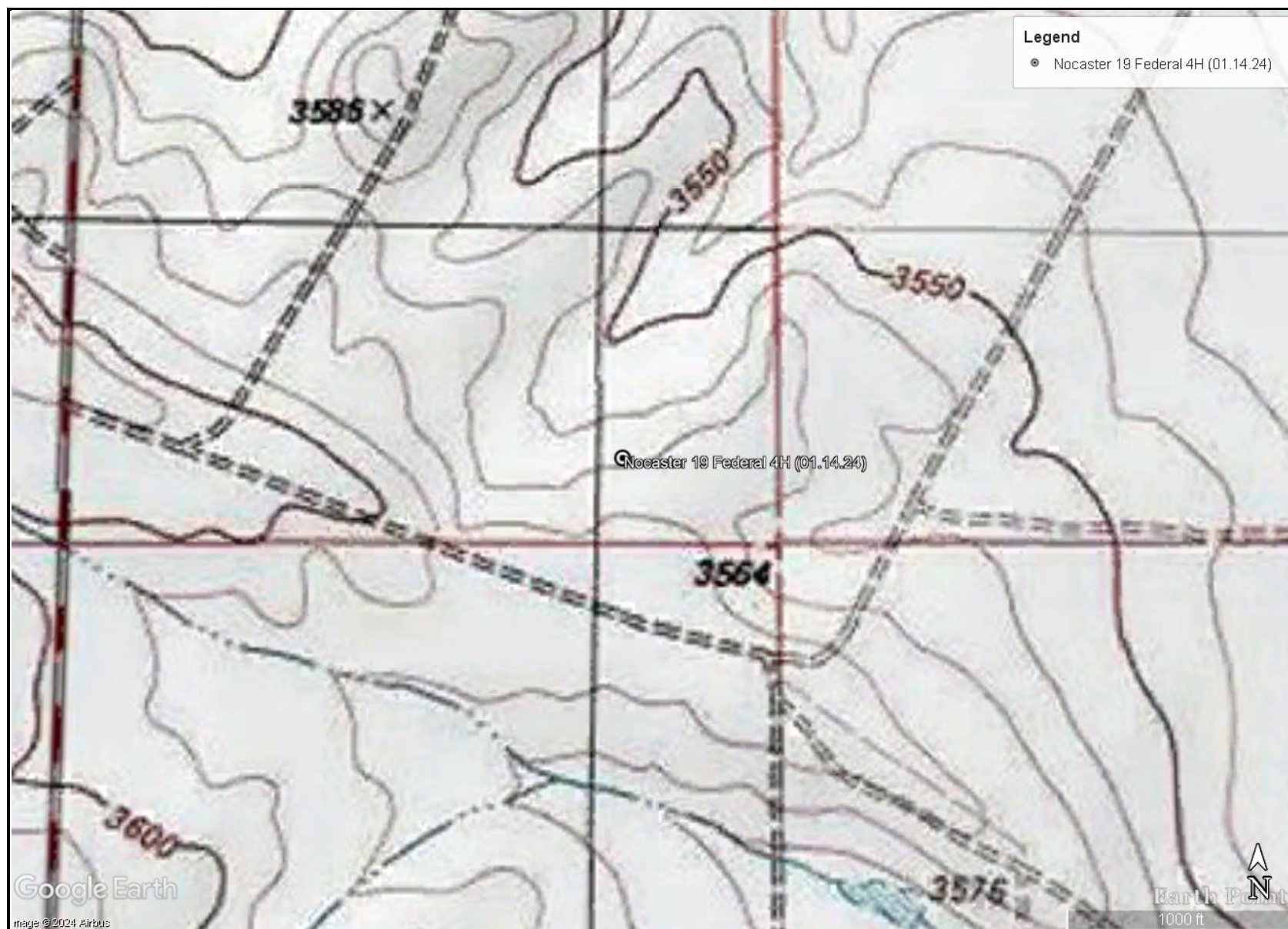


OVERVIEW MAP  
COG OPERATING, LLC  
NOCASTER 19 FEDERAL 004H (01.14.24)  
LEA COUNTY, NEW MEXICO  
32.2837°, -103.5033°



FIGURE 1

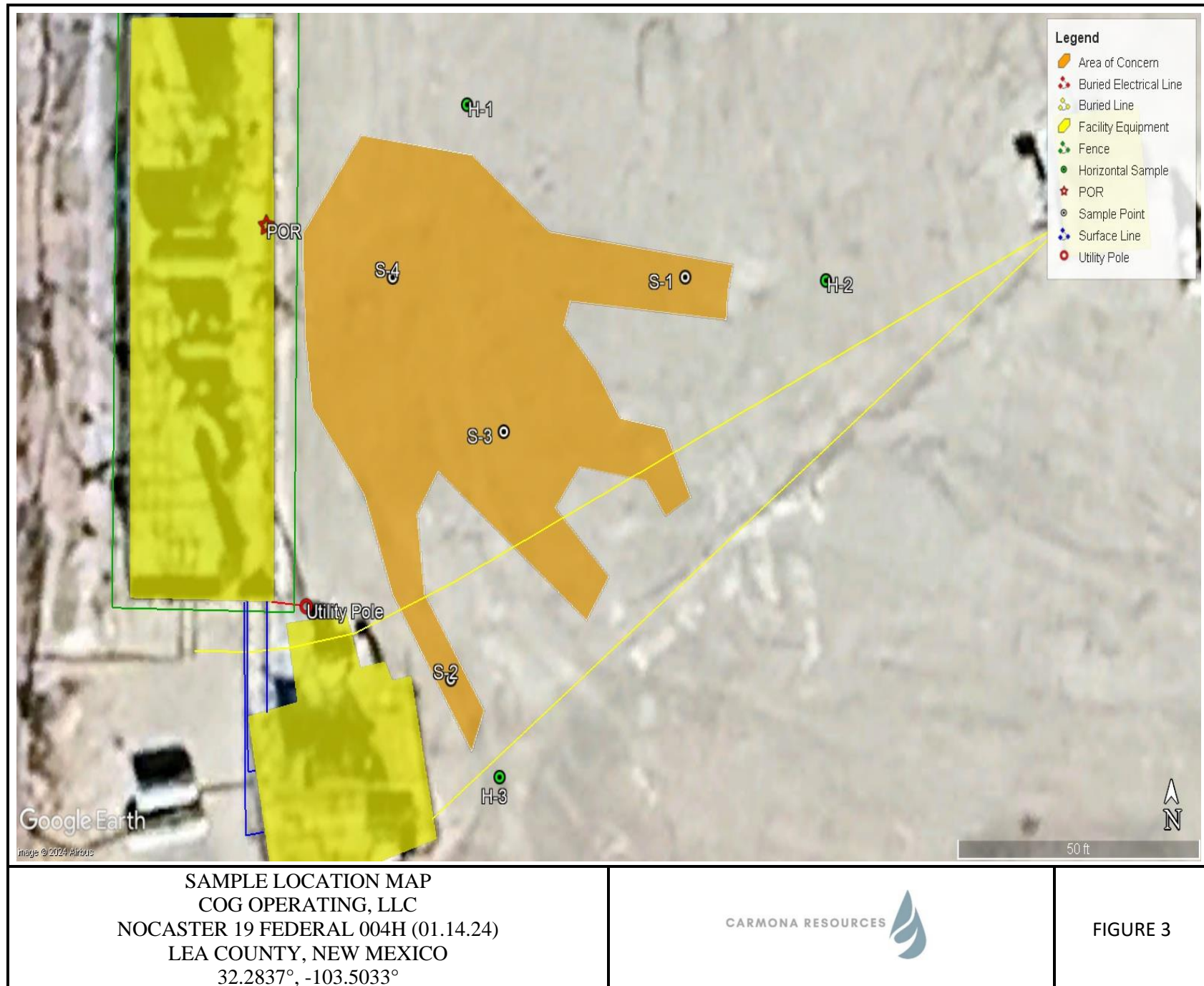




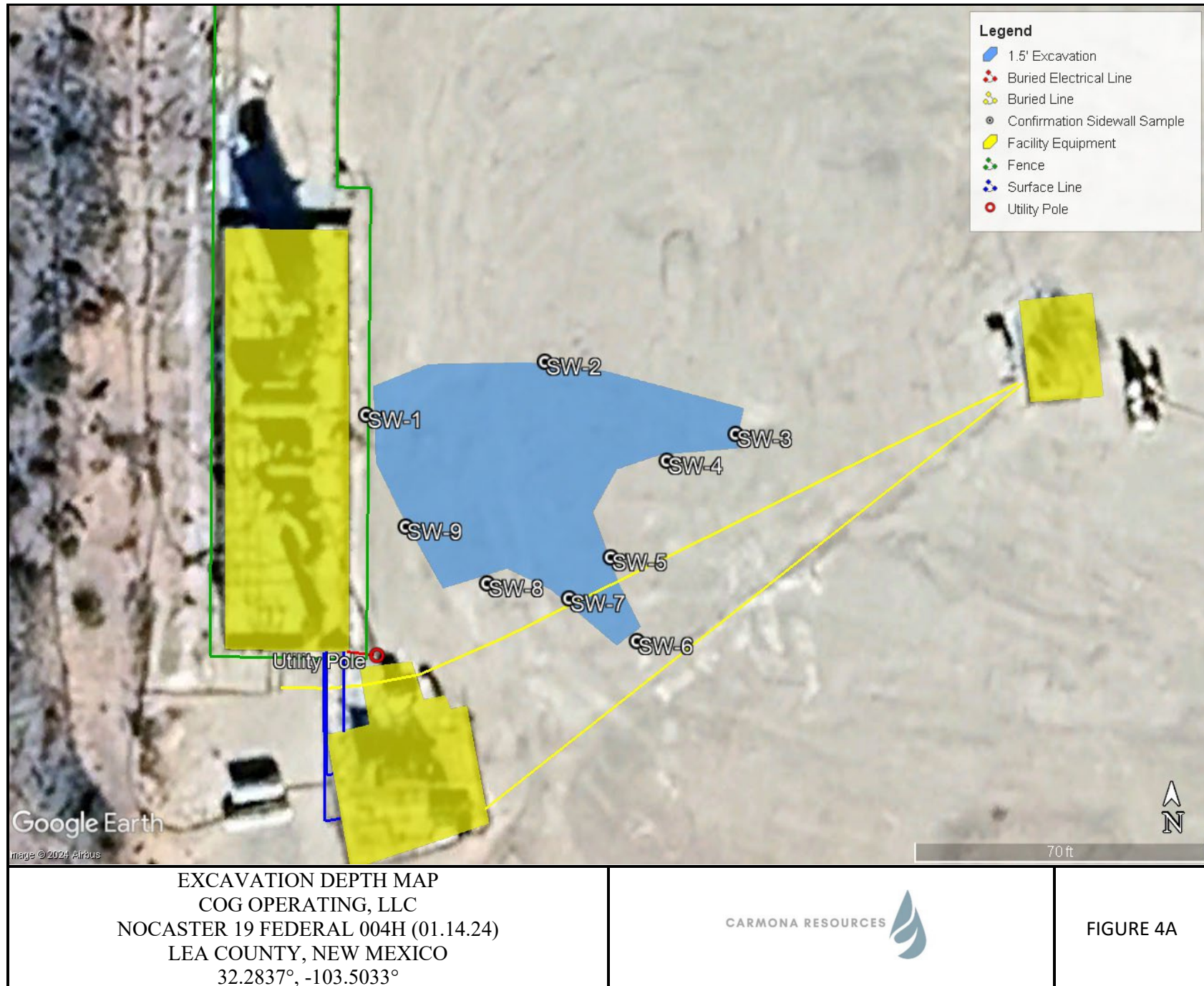
TOPOGRAPHIC MAP  
COG OPERATING, LLC  
NOCASTER 19 FEDERAL 004H (01.14.24)  
LEA COUNTY, NEW MEXICO  
32.2837°, -103.5033°

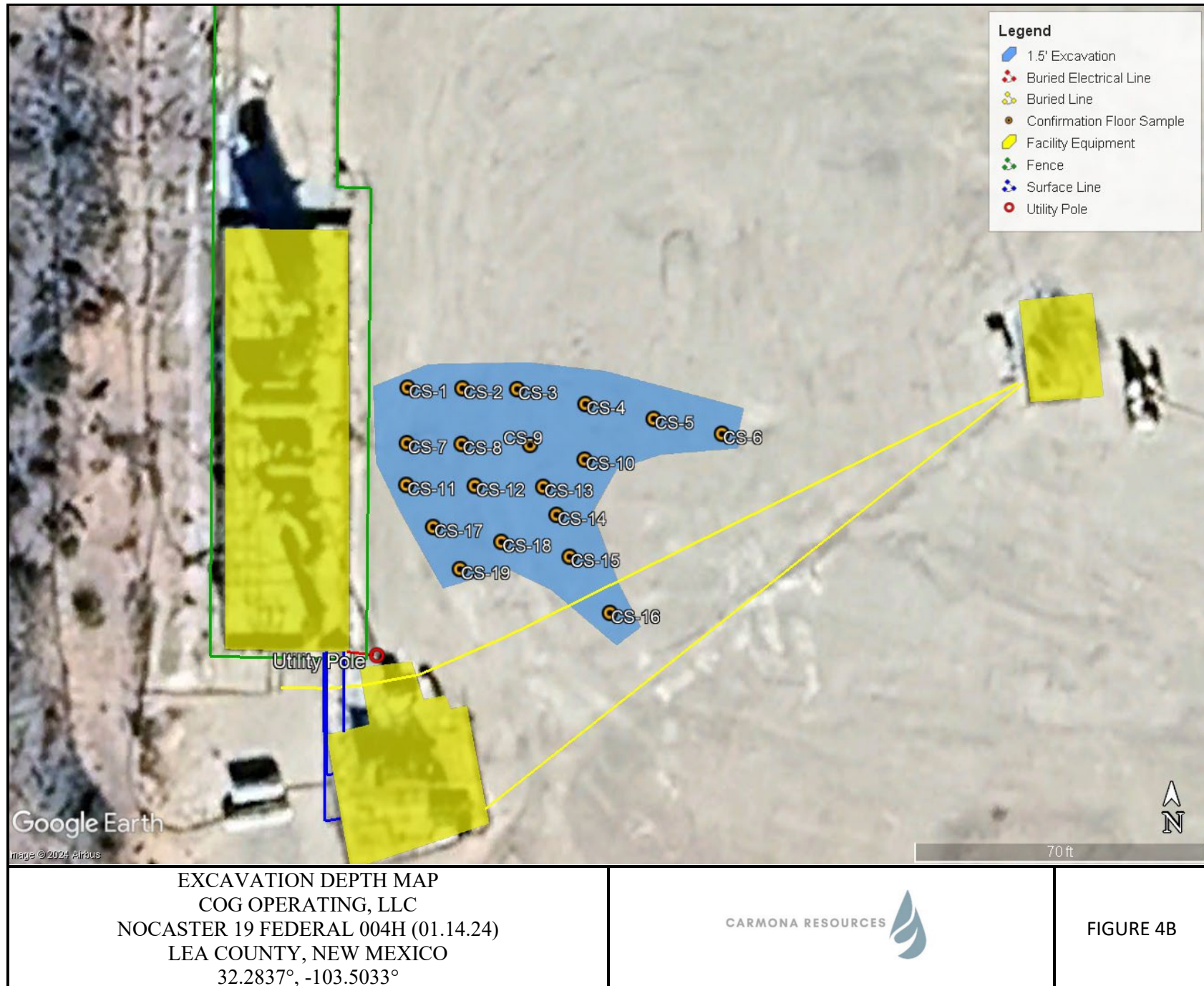


FIGURE 2









## APPENDIX A

CARMONA RESOURCES





**Table 1**  
**COG Operating**  
**Nocaster 19 Federal 4H (01.14.24)**  
**Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>S-1</b>	1/24/2024	0-1.0	280	549	68.3	897	0.467	9.40	4.72	17.8	32.4	304
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	0.129	0.051	0.167	0.347	48.0
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
<b>S-2</b>	1/24/2024	0-1.0	<10.0	74.5	<10.0	74.5	<0.050	<0.050	<0.050	<0.150	<0.300	224
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	0.073	<0.050	<0.150	<0.300	144
<b>S-3</b>	1/24/2024	0-1.0	331	687	71.7	1,090	0.399	5.87	3.00	11.3	20.6	480
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>S-4</b>	1/24/2024	0-1.0	68.8	215	14.6	298	<0.050	0.848	0.645	2.53	4.02	80.0
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	4.0	<10.0	<10.0	<10.0	<10.0	0.141	0.281	<0.050	<0.150	0.422	16.0
<b>BF SP</b>	2/7/2024		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
<b>H-1</b>	1/24/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
<b>H-2</b>	1/24/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
<b>H-3</b>	1/24/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
<b>Regulatory Criteria<sup>A</sup></b>						100 mg/kg	10 mg/kg		50 mg/kg			600 mg/kg

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Points

(BF SP) Backfill Material Stockpile

(H) Horizontal Sample

Removed

**Table 2**  
**COG Operating**  
**Nocaster 19 Federal 4H (01.14.24)**  
**Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-2	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-3	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-4	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-5	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-6	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-7	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-8	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-9	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-10	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-11	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-12	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-13	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-14	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-15	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-16	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-17	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-18	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-19	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-1	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-2	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-3	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-5	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-8	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-9	2/9/2024	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria <sup>A</sup>						100 mg/kg	10 mg/kg		50 mg/kg			600 mg/kg

(-) Not Analyzed

<sup>A</sup> - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

## APPENDIX B

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

## COG Operating

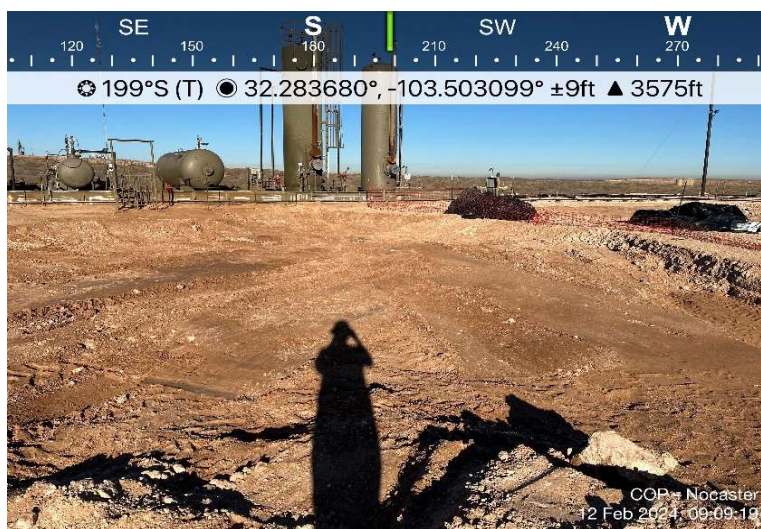
### Photograph No. 1

**Facility:** Nocaster 19 Federal 004H  
(01.14.24)

**County:** Lea County, New Mexico

**Description:**

View South, area of CS-1 through CS-10.



### Photograph No. 2

**Facility:** Nocaster 19 Federal 004H  
(01.14.24)

**County:** Lea County, New Mexico

**Description:**

View South, area of CS-5 through CS-16.



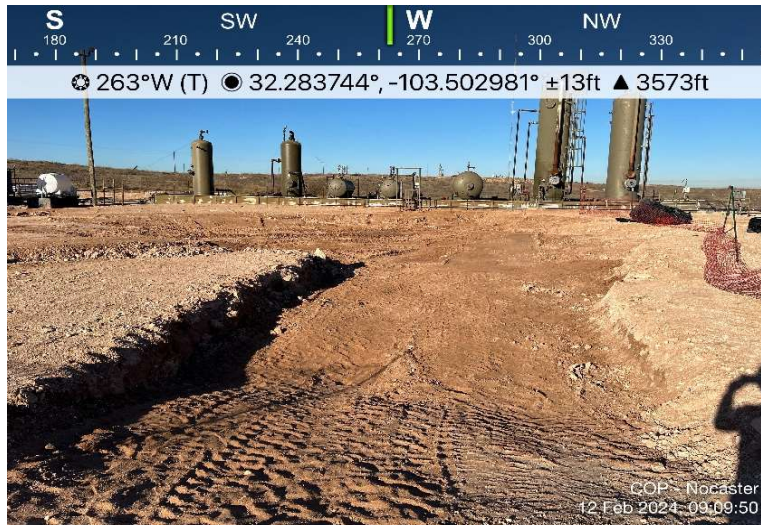
### Photograph No. 3

**Facility:** Nocaster 19 Federal 004H  
(01.14.24)

**County:** Lea County, New Mexico

**Description:**

View West, area of CS-1 through CS-10.





## PHOTOGRAPHIC LOG

## COG Operating

## Photograph No. 4

**Facility:** Nocaster 19 Federal 004H  
(01.14.24)

**County:** Lea County, New Mexico

**Description:**

View South, area of CS-1 through CS-13.



## Photograph No. 5

**Facility:** Nocaster 19 Federal 004H  
(01.14.24)

**County:** Lea County, New Mexico

**Description:**

View East, area of CS-7 through CS-19.



## Photograph No. 6

**Facility:** Nocaster 19 Federal 004H  
(01.14.24)

**County:** Lea County, New Mexico

**Description:**

View North, area of CS-11 through CS-19.





## APPENDIX C

CARMONA RESOURCES



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

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

QUESTIONS

Action 308817

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 308817
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

<b>Location of Release Source</b> <i>Please answer all the questions in this group.</i>	
Site Name	Nocaster 19 Federal 004H
Date Release Discovered	01/14/2024
Surface Owner	State

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

<b>Nature and Volume of Release</b> <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Freeze   Valve   Crude Oil   Released: 18 BBL   Recovered: 10 BBL   Lost: 8 BBL.
Produced Water Released (bbls) Details	Cause: Freeze   Valve   Produced Water   Released: 5 BBL   Recovered: 3 BBL   Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Energy, Minerals and Natural Resources  
Oil Conservation Division  
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Santa Fe, NM 87505

QUESTIONS, Page 2  
Action 308817

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 308817
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

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

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

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

ACKNOWLEDGMENTS  
  
Action 308817

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 308817
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

CONDITIONS

Action 308817

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 308817
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
brittanyesparza	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	1/29/2024

District I  
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District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

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





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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 312134

**QUESTIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 312134
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2402931812
Incident Name	NAPP2402931812 NOCASTER 19 FEDERAL 004H @ 0
Incident Type	Release Other
Incident Status	Notification Accepted
Incident Facility	[fAPP2203775638] Nocaster 19 Fed #3 & #4 RB

Location of Release Source	
Site Name	Nocaster 19 Federal 004H
Date Release Discovered	01/14/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,300
What is the estimated number of samples that will be gathered	28
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/09/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Conner Moerhring (432) 813- 6823
Please provide any information necessary for navigation to sampling site	From the intersection of NM128 and Delaware Basin road trvl N on Delaware Basin rd for 5.10 mi. Trn R onto unnamed lease rd and trvl E for 0.57 mi. Trn L and trvl N for 0.15. Arrive on the pad.

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CONDITIONS  
  
Action 312134

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 312134
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jlaire	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/7/2024

## APPENDIX D

CARMONA RESOURCES



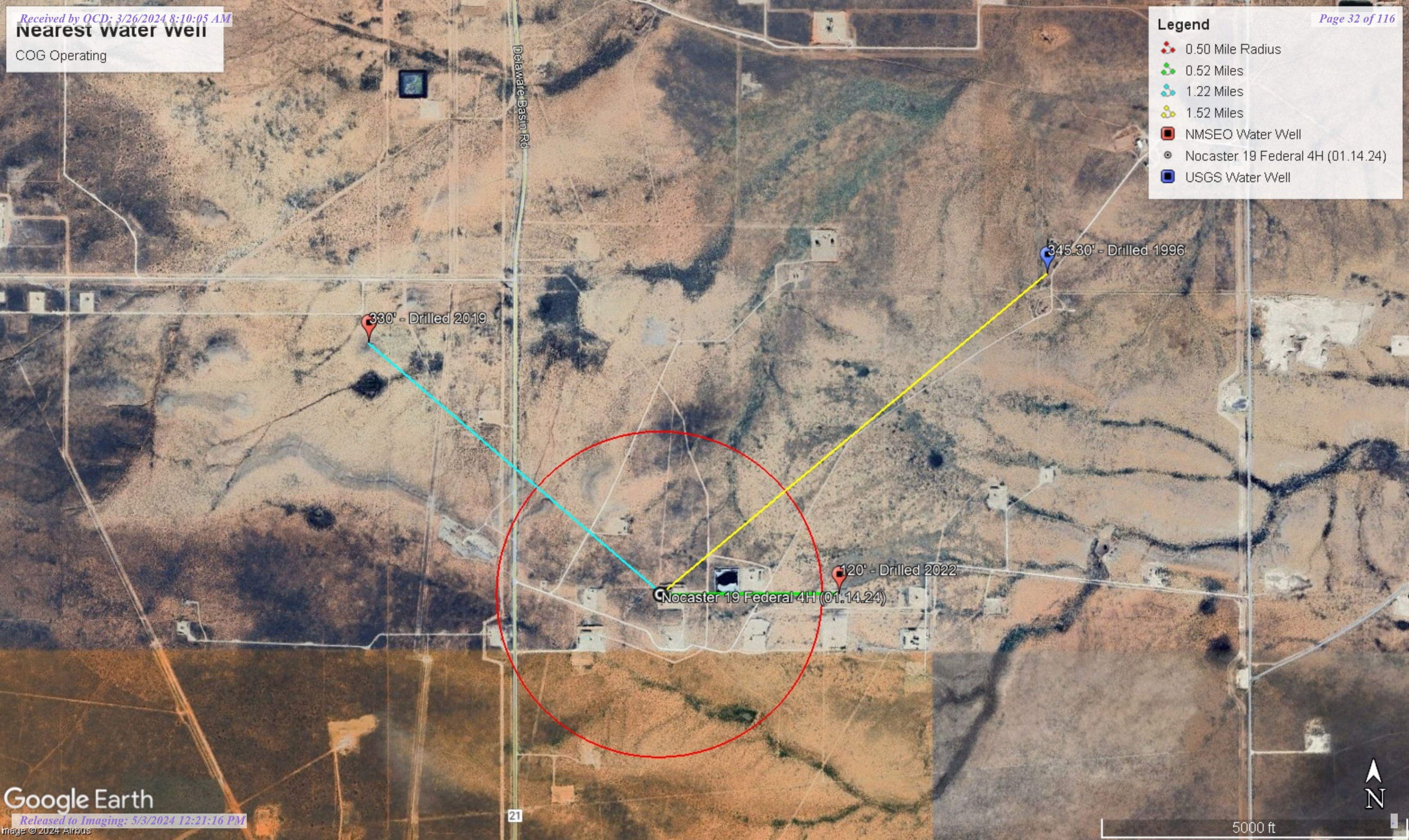


**Nearest water well**

COG Operating

**Legend**

- 0.50 Mile Radius
- 0.52 Miles
- 1.22 Miles
- 1.52 Miles
- NMSEO Water Well
- Nocaster 19 Federal 4H (01.14.24)
- USGS Water Well





Low Karst

COG Operating

Legend

- Low
- Nocaster 19 Federal 4H (01.14.24)

Nocaster 19 Federal 4H (01.14.24)



1 mi



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 04667 POD1</a>	CUB	LE		3	4	3	20	23S	34E	641770	3572915	773			
<a href="#">C 04353 POD1</a>	CUB	ED		4	2	2	24	23S	33E	639474	3574098	1952	603	330	273
<a href="#">C 02282</a>	CUB	LE		3	1	1	25	23S	33E	638098	3572436*	2933	325	225	100
<a href="#">C 03620 POD1</a>	CUB	LE		1	4	3	32	23S	34E	641790	3569941	3041	480	130	350
<a href="#">C 02283</a>	CUB	LE		4	2	2	26	23S	33E	637896	3572431*	3133	325	225	100
<a href="#">C 02284</a>	CUB	LE		4	2	4	26	23S	33E	637907	3571626*	3334	325	225	100
<a href="#">C 04282 POD1</a>	C	LE		1	2	1	05	24S	34E	641662	3569541	3401	574	390	184
<a href="#">CP 00556 POD1</a>	CP	LE		4	4	3	08	23S	34E	641762	3576206	3415	497	255	242
<a href="#">CP 01886 POD1</a>	CP	LE		4	1	4	07	23S	34E	640646	3576545	3684			
<a href="#">CP 01730 POD1</a>	CP	LE		2	2	1	16	23S	34E	643549	3575824	3898	594	200	394
<a href="#">CP 01258 POD2</a>	CP	LE		1	4	3	22	23S	34E	644941	3572883	3943	65		
<a href="#">CP 01258 POD3</a>	CP	LE		1	4	3	22	23S	34E	644938	3573097	3946	25		

Average Depth to Water: **247 feet**

Minimum Depth: **130 feet**

Maximum Depth: **390 feet**

Record Count: 12

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 640997.57

**Northing (Y):** 3572877.64

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

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

1/17/24 11:51 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4667-POD1		WELL TAG ID NO.		OSE FILE NO(S). C-04665			
	WELL OWNER NAME(S) COG OPERATING LLC				PHONE (OPTIONAL) 575-988-2043			
	WELL OWNER MAILING ADDRESS 2208 W MAIN ST				CITY STATE ZIP ARTESIA NM 88210			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 17	2.55	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE	-103	29	40.16	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE KING TUT FEDERAL 001H								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 9/15/2022	DRILLING ENDED 09/15/2022	DEPTH OF COMPLETED WELL (FT) 120	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				NO CASING IN HOLE				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

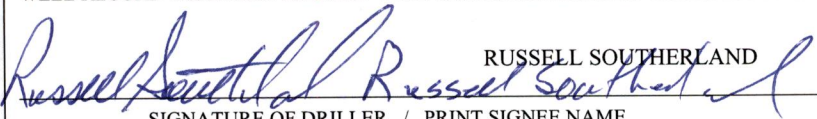
FILE NO. C-04667 Pod1	POD NO. 1	TRN NO. 733232
LOCATION 23S. 34E. 20. 3. 4. 3	WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	17		CALICHIE	Y ✓ N	
	17	60		SAND	Y ✓ N	
	60	120		RED SANDY CLAY	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER - SPECIFY: DRY HOLE					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	<div style="text-align: right;">OSE DIT OCT 3 2022 PM4:37</div>	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	
	RUSSELL SOUTHERLAND	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	09/15/2022 DATE

FOR OSE INTERNAL USE


WR-20 WELL RECORD &amp; LOG (Version 04/30/2019)

FILE NO. C-04667	POD NO. 1	TRN NO. 733232	
LOCATION 235. 34E. 20. 34.	WELL TAG ID NO. NA	PAGE 2 OF 2	



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

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321734103290001

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

USGS 321734103290001 23S.34E.16.333312

Lea County, New Mexico  
Latitude 32°17'53", Longitude 103°28'59" NAD27  
Land-surface elevation 3,478.00 feet above NGVD29  
The depth of the well is 400 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measur
1971-01-13		D	62610		3133.95	NGVD29	1	Z		
1971-01-13		D	62611		3135.58	NAVD88	1	Z		
1971-01-13		D	72019	344.05			1	Z		
1976-12-16		D	62610		3130.62	NGVD29	1	Z		
1976-12-16		D	62611		3132.25	NAVD88	1	Z		
1976-12-16		D	72019	347.38			1	Z		
1981-03-30		D	62610		3132.60	NGVD29	1	Z		
1981-03-30		D	62611		3134.23	NAVD88	1	Z		
1981-03-30		D	72019	345.40			1	Z		
1986-03-21		D	62610		3130.20	NGVD29	1	Z		
1986-03-21		D	62611		3131.83	NAVD88	1	Z		
1986-03-21		D	72019	347.80			1	Z		
1996-03-08		D	62610		3132.70	NGVD29	1	S		
1996-03-08		D	62611		3134.33	NAVD88	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
1996-03-08		D	72019	345.30		1	S

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
Method of measurement	S	Steel-tape measurement.
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.

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**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: 2024-01-17 13:19:19 EST

0.27 0.24 nadww02





# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04353 POD1	4	2	2	24	23S	33E	639474	3574098

x

Driller License:

1737

Driller Company:

SHADE TREE DRILLING

Driller Name:

JUSTIN MULLINS

Drill Start Date:

11/04/2019

Drill Finish Date:

11/13/2019

Plug Date:

Log File Date:

01/29/2020

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

30 GPM

Casing Size:

6.00

Depth Well:

603 feet

Depth Water:

330 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	330	344	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	301	601

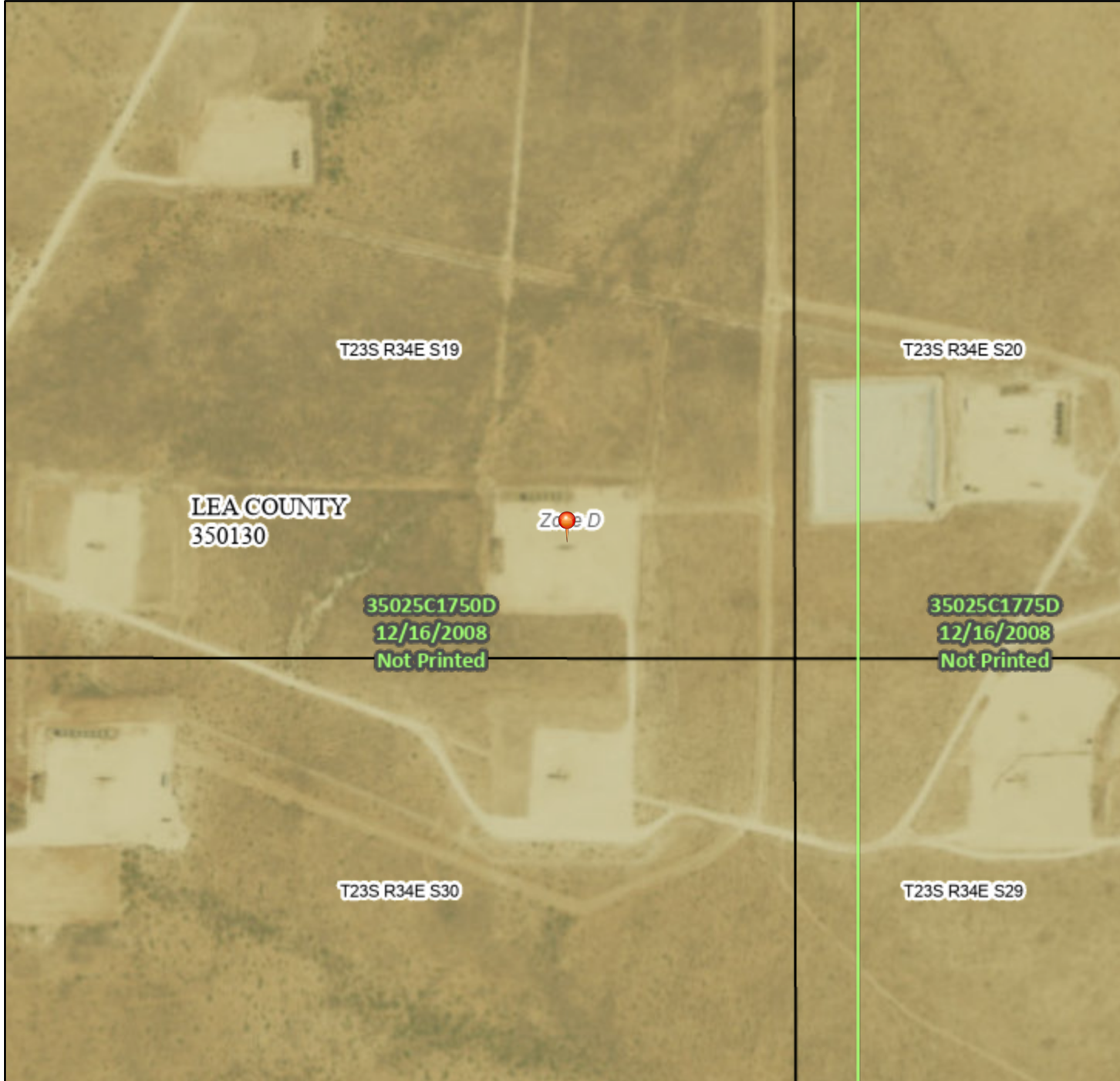
x

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

# National Flood Hazard Layer FIRMette



103°30'28"W 32°17'17"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°29'51"W 32°16'46"N

Released to Imaging: 5/3/2024 12:21:16 PM

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



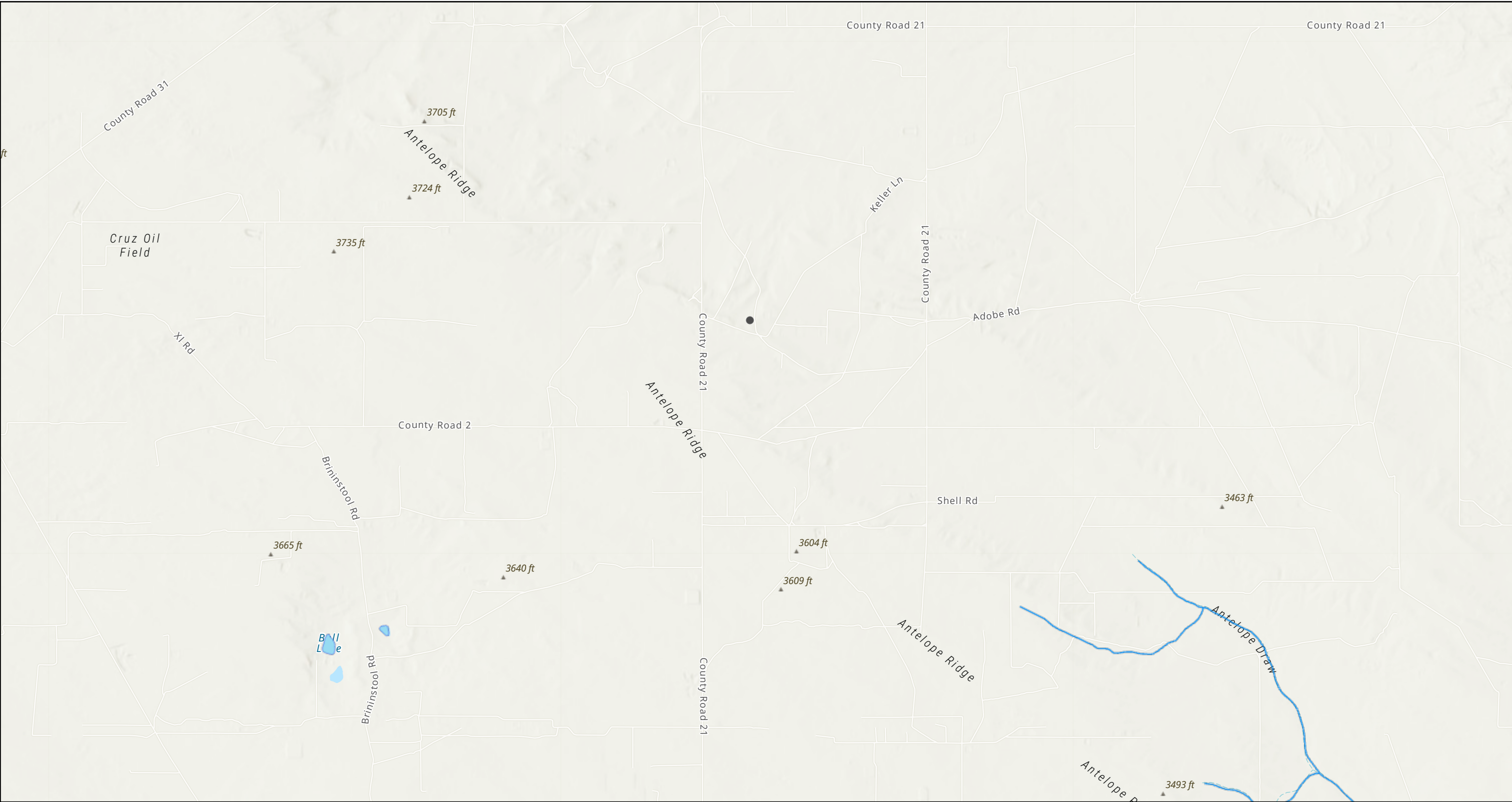
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/17/2024 at 1:40 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

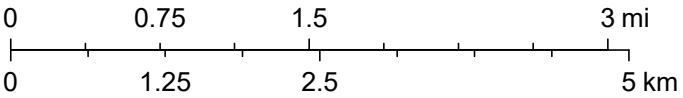
# Nocaster 19 Federal 4H (01.14.24)



1/17/2024, 12:40:13 PM

1:72,224

- OSW Water Bodys
- OSE Streams



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



## APPENDIX E

CARMONA RESOURCES





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

February 01, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: NOCASTER 19 FEDERAL 4H (01.14.24)

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 1 (0-1.0') (H240399-01)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.467</b>	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
<b>Toluene*</b>	<b>9.40</b>	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
<b>Ethylbenzene*</b>	<b>4.72</b>	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
<b>Total Xylenes*</b>	<b>17.8</b>	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
<b>Total BTX</b>	<b>32.4</b>	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 163 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>304</b>	16.0	01/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>280</b>	10.0	01/30/2024	ND	203	101	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>549</b>	10.0	01/30/2024	ND	203	102	200	4.70	
<b>EXT DRO &gt;C28-C36</b>	<b>68.3</b>	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 1 (1.5') (H240399-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
Toluene*	0.129	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
Ethylbenzene*	0.051	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
Total Xylenes*	0.167	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
Total BTEX	0.347	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/30/2024	ND	416	104	400	3.77		

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

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 1 (2.0') (H240399-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18		
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/30/2024	ND	416	104	400	3.77		

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

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 1 (3.0') (H240399-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18		
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/30/2024	ND	416	104	400	3.77		

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

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 2 (0-1.0') (H240399-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18		
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	74.5	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 2 (1.5') (H240399-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/30/2024	ND	416	104	400	3.77		

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

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 2 (2.0') (H240399-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/30/2024	ND	416	104	400	3.77	

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

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 2 (3.0') (H240399-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18		
Toluene*	0.073	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/30/2024	ND	416	104	400	3.77		

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

Surrogate: 1-Chlorooctane 64.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 3 (0-1.0') (H240399-09)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.399</b>	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
<b>Toluene*</b>	<b>5.87</b>	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
<b>Ethylbenzene*</b>	<b>3.00</b>	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
<b>Total Xylenes*</b>	<b>11.3</b>	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
<b>Total BTEX</b>	<b>20.6</b>	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>480</b>	16.0	01/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>331</b>	10.0	01/30/2024	ND	206	103	200	2.37	
<b>DRO &gt;C10-C28*</b>	<b>687</b>	10.0	01/30/2024	ND	228	114	200	1.85	
<b>EXT DRO &gt;C28-C36</b>	<b>71.7</b>	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 3 (1.5') (H240399-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18		
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/30/2024	ND	416	104	400	3.77		

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

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 3 (2.0') (H240399-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18		
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

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

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

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 3 (3.0') (H240399-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/30/2024	ND	416	104	400	3.77		

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

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 3 (4.0') (H240399-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18		
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

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

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

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 4 (0-1.0') (H240399-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
Toluene*	0.848	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
Ethylbenzene*	0.645	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
Total Xylenes*	2.53	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
Total BTEX	4.02	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	68.8	10.0	01/30/2024	ND	206	103	200	2.37	
DRO >C10-C28*	215	10.0	01/30/2024	ND	228	114	200	1.85	
EXT DRO >C28-C36	14.6	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 4 (1.5') (H240399-15)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

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

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

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 4 (2.0') (H240399-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18		
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

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

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

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 4 (3.0') (H240399-17)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
Toluene*	<0.050	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

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

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

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: S - 4 (4.0') (H240399-18)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.141	0.050	01/30/2024	ND	1.79	89.5	2.00	8.18	
Toluene*	0.281	0.050	01/30/2024	ND	1.90	94.8	2.00	6.95	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	1.89	94.5	2.00	7.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	5.73	95.5	6.00	6.89	
Total BTEX	0.422	0.300	01/30/2024	ND					

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

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

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

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H240399

Page 1 of 2

Page 21 of 22

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

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

Project Name:	Nocaster 19 Federal 4H (01.14.24)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2244	Due Date:	72 HR														None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Lea County, New Mexico																Cool: Cool	MeOH: Me	
Sampler's Name:	GPJ																HCL: HC	HNO <sub>3</sub> : HN	
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> : HP		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	14D														NaHSO <sub>4</sub> : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-1.5°C														Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub>		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	4.5°C														Zn Acetate+NaOH: Zn		
Total Containers:	81	Corrected Temperature:	-														NaOH+Ascorbic Acid: SAPC		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
S-1 (0-1.0')	1/24/2024		X		G	1	X	X	X	X									
S-1 (1.5')	1/24/2024		X		G	1	X	X	X	X									
S-1 (2.0')	1/24/2024		X		G	1	X	X	X	X									
S-1 (3.0')	1/24/2024		X		G	1	X	X	X	X									
S-2 (0-1.0')	1/24/2024		X		G	1	X	X	X	X									
S-2 (1.5')	1/24/2024		X		G	1	X	X	X	X									
S-2 (2.0')	1/24/2024		X		G	1	X	X	X	X									
S-2 (3.0')	1/24/2024		X		G	1	X	X	X	X									
S-3 (0-1.0')	1/24/2024		X		G	1	X	X	X	X									
S-3 (1.5')	1/24/2024		X		G	1	X	X	X	X									

Comments: Email to Mike Carmona / [mcarmona@carmonaresources.com](mailto:mcarmona@carmonaresources.com) and Conner Moehring / [cmoehring@carmonaresources.com](mailto:cmoehring@carmonaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	1/24/24 10:30	<i>Mike Carmona</i>	1/24/24



## Chain of Custody

Work Order No: 4340 399

Page 2 of 2

Page 22 of 22

Project Manager:	Conner Moehring	Bill to: (if different)	Camrona Resources
Company Name:	Camrona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	<a href="mailto:mcamrona@camronaresources.com">mcamrona@camronaresources.com</a>

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

Phone: 432-813-6823		ANALYSIS REQUEST										Preservative Codes					
Project Name: Newcastle 19 Federal 4H (01.14.24)		Turn Around			Pres. Code								None: NO		DI Water: H <sub>2</sub> O		
Project Number: 2244		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush												Cool: Cool		MeOH: Me	
Project Location: Lea County, New Mexico		Due Date: 72 HR												HCL: HC		HNO <sub>3</sub> : HN	
Sampler's Name: GPJ														H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>		NaOH: Na	
PO #:																	
SAMPLE RECEIPT		Temp Blank: Yes No		Yes No		Wet Ice: Yes No										H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact: Yes No		Thermometer ID: 11004		Correction Factor: 140												NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals: Yes No N/A		Correction Factor: 1		Temperature Reading: -1.50C												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals: Yes No N/A		Corrected Temperature: 1														Zn Acetate+NaOH: Zn	
Total Containers: 1																NaOH+Ascorbic Acid: SAPC	
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont				Sample Comments	
S-3 (2.0')		1/24/2024				X				G		1		X		X	
S-3 (3.0')		1/24/2024				X				G		1		X		X	
S-3 (4.0')		1/24/2024				X				G		1		X		X	
S-4 (0-1.0')		1/24/2024				X				G		1		X		X	
S-4 (1.5')		1/24/2024				X				G		1		X		X	
S-4 (2.0')		1/24/2024				X				G		1		X		X	
S-4 (3.0')		1/24/2024				X				G		1		X		X	
S-4 (4.0')		1/24/2024				X				G		1		X		X	

**Comments:** Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Don McArthur</i>	1/24/24 1030	<i>Jeffrey</i>	1/24/24



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February 01, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: NOCASTER 19 FEDERAL 4H (01.14.24)

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H - 1 (0-0.5') (H240402-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.01	100	2.00	11.3	
Toluene*	<0.050	0.050	01/30/2024	ND	2.06	103	2.00	13.4	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.17	109	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.59	110	6.00	13.9	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	227	113	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	227	114	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H - 2 (0-0.5') (H240402-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.01	100	2.00	11.3	
Toluene*	<0.050	0.050	01/30/2024	ND	2.06	103	2.00	13.4	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.17	109	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.59	110	6.00	13.9	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	227	113	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	227	114	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/01/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H - 3 (0-0.5') (H240402-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.01	100	2.00	11.3	
Toluene*	<0.050	0.050	01/30/2024	ND	2.06	103	2.00	13.4	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.17	109	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.59	110	6.00	13.9	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	227	113	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	227	114	200	0.110	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## Chain of Custody

**Work Order No:**

Page 6 of 6

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

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February 08, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: NOCASTER 19 FEDERAL 4H (01.14.24)

Enclosed are the results of analyses for samples received by the laboratory on 02/07/24 15:56.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2024	Sampling Date:	02/07/2024
Reported:	02/08/2024	Sampling Type:	Soil
Project Name:	NOCASTER 19 FEDERAL 4H (01.14.24)	Sampling Condition:	Cool & Intact
Project Number:	2244	Sample Received By:	Dionica Hinojos
Project Location:	LEA COUNTY, NM		

**Sample ID: BACKFILL MATERIAL STOCKPILE (H240597-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2024	ND	1.80	90.1	2.00	6.15		
Toluene*	<0.050	0.050	02/07/2024	ND	1.91	95.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	1.86	93.1	2.00	5.09		
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.82	96.9	6.00	3.79		
Total BTX	<0.300	0.300	02/07/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2024	ND	241	120	200	9.48	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	237	119	200	15.5	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



Work Order No: H240597

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

[illegible]

Date/Time

*[Signature]*

2/7/24 15:56



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

February 12, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: NOCASTER 19 FEDERAL 4H (01.14.24)

Enclosed are the results of analyses for samples received by the laboratory on 02/09/24 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 1 (1.5') (H240645-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3		
Total BTEX	<0.300	0.300	02/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS -2 (1.5') (H240645-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8	
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3	
Total BTEX	<0.300	0.300	02/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 3 (1.5') (H240645-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3		
Total BTEX	<0.300	0.300	02/09/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 4 (1.5') (H240645-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3		
Total BTEX	<0.300	0.300	02/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 5 (1.5') (H240645-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8	
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3	
Total BTEx	<0.300	0.300	02/09/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 6 (1.5') (H240645-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3		
Total BTEX	<0.300	0.300	02/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 7 (1.5') (H240645-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3		
Total BTEx	<0.300	0.300	02/09/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 8 (1.5') (H240645-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3		
Total BTEX	<0.300	0.300	02/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 9 (1.5') (H240645-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/09/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.56	109	6.00	12.3		
Total BTEX	<0.300	0.300	02/09/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	210	105	200	8.21	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	216	108	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 10 (1.5') (H240645-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8	
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3	
Total BTEx	<0.300	0.300	02/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 11 (1.5') (H240645-11)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3		
Total BTEX	<0.300	0.300	02/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 12 (1.5') (H240645-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8	
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3	
Total BTEx	<0.300	0.300	02/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	QM-07
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 13 (1.5') (H240645-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3		
Total BTEx	<0.300	0.300	02/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 14 (1.5') (H240645-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8	
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3	
Total BTEx	<0.300	0.300	02/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/12/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 15 (1.5') (H240645-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3		
Total BTEx	<0.300	0.300	02/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 16 (1.5') (H240645-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8		
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3		
Total BTEx	<0.300	0.300	02/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 17 (1.5') (H240645-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8	
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3	
Total BTEX	<0.300	0.300	02/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/12/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 18 (1.5') (H240645-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.8	
Toluene*	<0.050	0.050	02/10/2024	ND	2.20	110	2.00	14.2	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.18	109	2.00	14.1	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.56	109	6.00	12.3	
Total BTEX	<0.300	0.300	02/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/12/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 19 (1.5') (H240645-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2		
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6		
Total BTEX	<0.300	0.300	02/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 1 (1.5') (H240645-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2		
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6		
Total BTEx	<0.300	0.300	02/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 2 (1.5') (H240645-21)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2		
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6		
Total BTEX	<0.300	0.300	02/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 3 (1.5') (H240645-22)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2		
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6		
Total BTEX	<0.300	0.300	02/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 4 (1.5') (H240645-23)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2		
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6		
Total BTEX	<0.300	0.300	02/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 5 (1.5') (H240645-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2		
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6		
Total BTEX	<0.300	0.300	02/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/12/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 6 (1.5') (H240645-25)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2	
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6	
Total BTEX	<0.300	0.300	02/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/12/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 7 (1.5') (H240645-26)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2	
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6	
Total BTEX	<0.300	0.300	02/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/12/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 8 (1.5') (H240645-27)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2		
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3		
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3		
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6		
Total BTEX	<0.300	0.300	02/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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**Analytical Results For:**

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

Received: 02/09/2024  
 Reported: 02/12/2024  
 Project Name: NOCASTER 19 FEDERAL 4H (01.14.24)  
 Project Number: 2244  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 9 (1.5') (H240645-28)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2024	ND	2.21	111	2.00	13.2	
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6	
Total BTEX	<0.300	0.300	02/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/12/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2024	ND	201	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	02/10/2024	ND	208	104	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	02/10/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

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

Celey D. Keene, Lab Director/Quality Manager

Work Order No: 7240692

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

ANALYSIS REQUEST										Preservative Codes	
BTEX 8021B										None: NO	DI Water: H <sub>2</sub> O
8015M ( GRO + DRO + MRO)										Cool: Cool	MeOH: Me
Chloride 4500										HCL: HC	HNO <sub>3</sub> : HN
										H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
										H <sub>3</sub> PO <sub>4</sub> : HP	
										NaHSO <sub>4</sub> : NABIS	
										Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub>	
										Zn Acetate+NaOH: Zn	
										NaOH+Acetic Acid: SAPC	

[illegible]

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Released to Imaging: 5/3/2024 12:21:16 PM



Chain of Custody

Work Order No: 18401045

Page 2 of 3

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

Work Order Comments	
Program: UST/PST	PRP Brownfields RRC Deepfund
State of Project:	
Reporting Level II	Level III ST/UST RRP Level IV
Deliverables: EDD	ADAPT Other:

Project Name:	Nocaster 19 Federal 4H (01.14.24)	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	2244	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO	DI Water: H <sub>2</sub> O				
Project Location:	Lea County, New Mexico	Due Date:	24 HR													Cool: Cool	MeOH: Me				
Sampler's Name:	JM															HCL: HC	HNO <sub>3</sub> : HN				
PO #:																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na				
SAMPLE RECEIPT				Temp Blank:	Yes No	Wet Ice:	Yes No													H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes No	Thermometer ID:																		NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes No	Correction Factor:																		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub>	
Sample Custody Seals:	Yes No	Temperature Reading:																		Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	2/29/2024 16:20		

Chain of Custody

Work Order No: 18401045

Page 3 of 3

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

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

Project Name:	Nocaster 19 Federal 4H (01.14.24)	Turn Around	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes		
Project Number:	2244																None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Lea County, New Mexico	Due Date:	24 HR														Cool: Cool	MeOH: Me	
Sampler's Name:	JM																HCL: HC	HNO <sub>3</sub> : HN	
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No											H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes	No	Thermometer ID:															NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes	No	Correction Factor:															Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes	No	Temperature Reading:															Zn Acetate+NaOH: Zn	
Total Containers:			Corrected Temperature:															NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments		
SW-2 (1.5')	2/9/2024		X		C	1	X	X	X									21	
SW-3 (1.5')	2/9/2024		X		C	1	X	X	X									22	
SW-4 (1.5')	2/9/2024		X		C	1	X	X	X									23	
SW-5 (1.5')	2/9/2024		X		C	1	X	X	X									24	
SW-6 (1.5')	2/9/2024		X		C	1	X	X	X									25	
SW-7 (1.5')	2/9/2024		X		C	1	X	X	X									26	
SW-8 (1.5')	2/9/2024		X		C	1	X	X	X									27	
SW-9 (1.5')	2/9/2024		X		C	1	X	X	X									28	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	2/29/2024		



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

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

QUESTIONS

Action 326666

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	326666
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2402931812
Incident Name	NAPP2402931812 NOCASTER 19 FEDERAL 004H @ 0
Incident Type	Release Other
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2203775638] Nocaster 19 Fed #3 & #4 RB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Nocaster 19 Federal 004H
Date Release Discovered	01/14/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Freeze   Valve   Crude Oil   Released: 18 BBL   Recovered: 10 BBL   Lost: 8 BBL.
Produced Water Released (bbls) Details	Cause: Freeze   Valve   Produced Water   Released: 5 BBL   Recovered: 3 BBL   Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

**District I**

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Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

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

**District IV**

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

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

QUESTIONS, Page 2

Action 326666

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	326666
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/26/2024
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

**District I**

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

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

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

QUESTIONS, Page 3

Action 326666

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	326666
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	304
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1090
GRO+DRO	(EPA SW-846 Method 8015M)	1018
BTEX	(EPA SW-846 Method 8021B or 8260B)	32.4
Benzene	(EPA SW-846 Method 8021B or 8260B)	1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/07/2024
On what date will (or did) the final sampling or liner inspection occur	02/09/2024
On what date will (or was) the remediation complete(d)	02/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1800
What is the estimated volume (in cubic yards) that will be remediated	140

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 326666

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	326666
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Nocaster 19 Fed #3 & #4 RB [fAPP2203775638]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/26/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 326666

QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	326666
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

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



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Action 326666

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	326666
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	312134
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/09/2024
What was the (estimated) number of samples that were to be gathered	28
What was the sampling surface area in square feet	2300

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1800
What was the total volume (cubic yards) remediated	140
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/26/2024
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

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Action 326666

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	326666
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS****Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1800
What was the total volume of replacement material (in cubic yards) for this site	140

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	03/26/2024

Summarize any additional reclamation activities not included by answers (above)	N/A
---------------------------------------------------------------------------------	-----

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/26/2024
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Action 326666

QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  326666
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS  
  
Action 326666

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 326666
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/3/2024