

Convert irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	25.0	18.0	0.5	On-Pad✓	10.50%	3.34	0.35
Rectangle B				✓		0.00	
Rectangle C				✓		0.00	
Rectangle D				✓		0.00	
Rectangle E				✓		0.00	
Rectangle F				✓		0.00	
Rectangle G				✓		0.00	
Rectangle H				✓		0.00	
Rectangle I				✓		0.00	
Rectangle J				✓		0.00	
Total Subsurface Volume Released:							0.3504

Received by OCD: 6/10/2025 10:42:34 AM

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Released to Imaging: 7/10/2025 4:22:50 PM

CARMONA RESOURCES



SITE INFORMATION

Closure Report

Lusk Deep Unit A #25 (03.05.2025)

Incident # nAPP2506541672

Lea County, New Mexico

Unit E Sec 20 T19S R32E

32.6482697°, -103.7958755°

Crude Oil Release

Point of Release: Flare Fire

Release Date: 03.05.2025

Volume Released: 0.35 barrels of Crude Oil

Volume Recovered: 0.0 barrels of Crude Oil

CARMONA RESOURCES



Prepared for:

**Concho Operating, LLC
15 West London Road
Loving, New Mexico 88256**

Prepared by:

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

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

**TABLE OF CONTENTS****1.0 SITE INFORMATION AND BACKGROUND****2.0 SITE CHARACTERIZATION AND GROUNDWATER****3.0 NMAC REGULATORY CRITERIA****4.0 SITE ASSESSMENT ACTIVITIES****5.0 REMEDIATION ACTIVITIES****6.0 CONCLUSIONS****FIGURES****FIGURE 1 OVERVIEW****FIGURE 2 TOPOGRAPHIC****FIGURE 3 SAMPLE LOCATION****FIGURE 4 EXCAVATION****APPENDICES****APPENDIX A TABLES****APPENDIX B PHOTOS****APPENDIX C N.O.R. AND FINAL C-141/NMOCD CORRESPONDENCE****APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER****APPENDIX E LABORATORY REPORTS**

May 30, 2025

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

Re: Closure Report
Lusk Deep Unit A #25 (03.05.2025)
Concho Operating, LLC
Site Location: Unit E, S20, T19S, R32E
(Lat 32.6482697, Long -103.7958755)
Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Lusk Deep Unit A #25 (03.05.2025) The site is located at 32.6482697, -103.7958755 within Unit E, S20, T19S, R32E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 05, 2025, due to a Flare Fire. The incident released approximately zero point three five (0.35) barrels of crude oil with zero (0) barrels recovered. The impacted area occurred in the pad, as shown in Figure 3. The Notice of Release 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 two known water sources are within a 0.50-mile radius of the location, the nearest identified well is located approximately 0.07 miles Southeast of the site in S20, T19S, R32E and was drilled in 1982. The well has a reported depth to groundwater of 345' below ground surface (ft bgs). The second identified well is located approximately 0.29 miles Northeast of the site in S19, T19S, R32E and was drilled in 1982. The well has a reported depth to groundwater of 102' below ground surface (ft bgs). 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 NMAC, the following criteria was utilized in assessing the site.

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

4.0 Site Assessment Activities

Initial Assessment

On March 21, 2025, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) sample points (S-1 through S-2) and five (5)



horizontal sample points (H-1 through H-5) were installed to total depths ranging from surface to 1.5' bgs inside and surrounding the release area to evaluate 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.

5.0 Remediation Activities

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on May 07, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. The areas of S-1 and S-2 were excavated to a depth of 0.5' to ensure the removal of all impacted material. A total of six (6) confirmation floor samples were collected (CS-1 through CS-6), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were transported to Eurofins Laboratories in Midland, Texas and analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Prior to backfilling, the material that was used was sampled to ensure it was clean and non-waste containing material. Refer to Table 2 for the analytical results.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 20 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

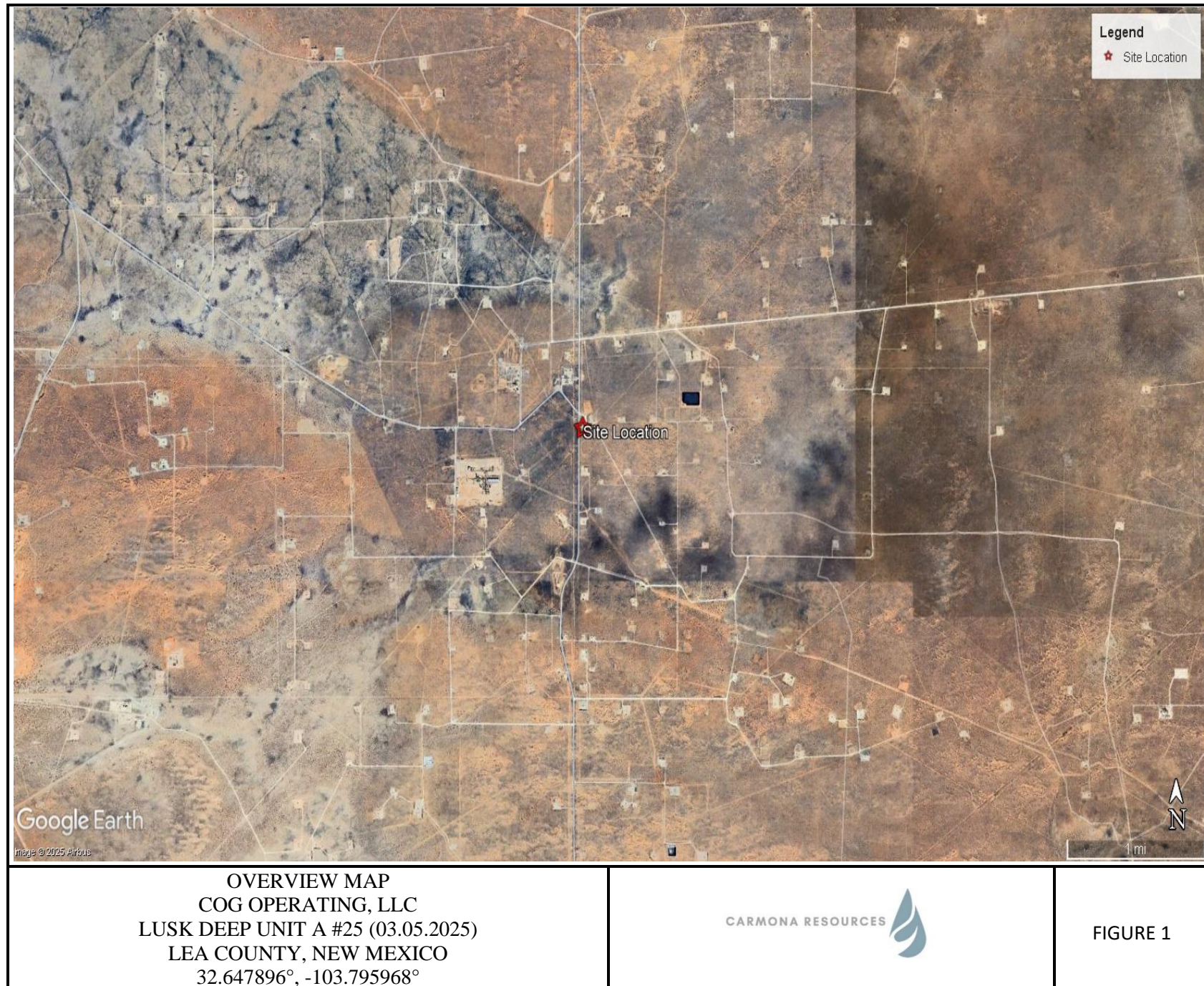
Conner Moehring
Environmental Manager

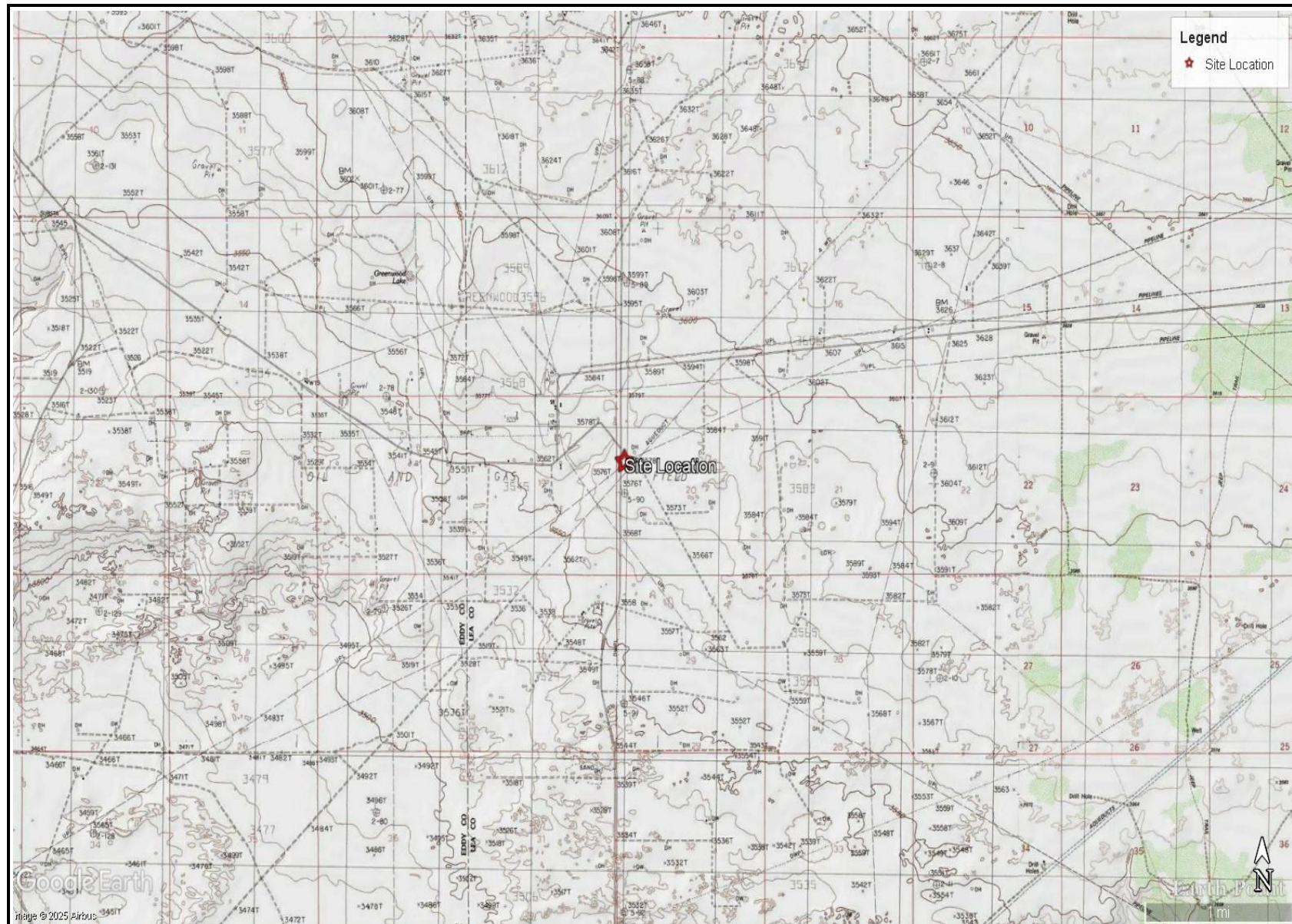
Stephen Reyes
Sr. Project Manager

FIGURES

CARMONA RESOURCES





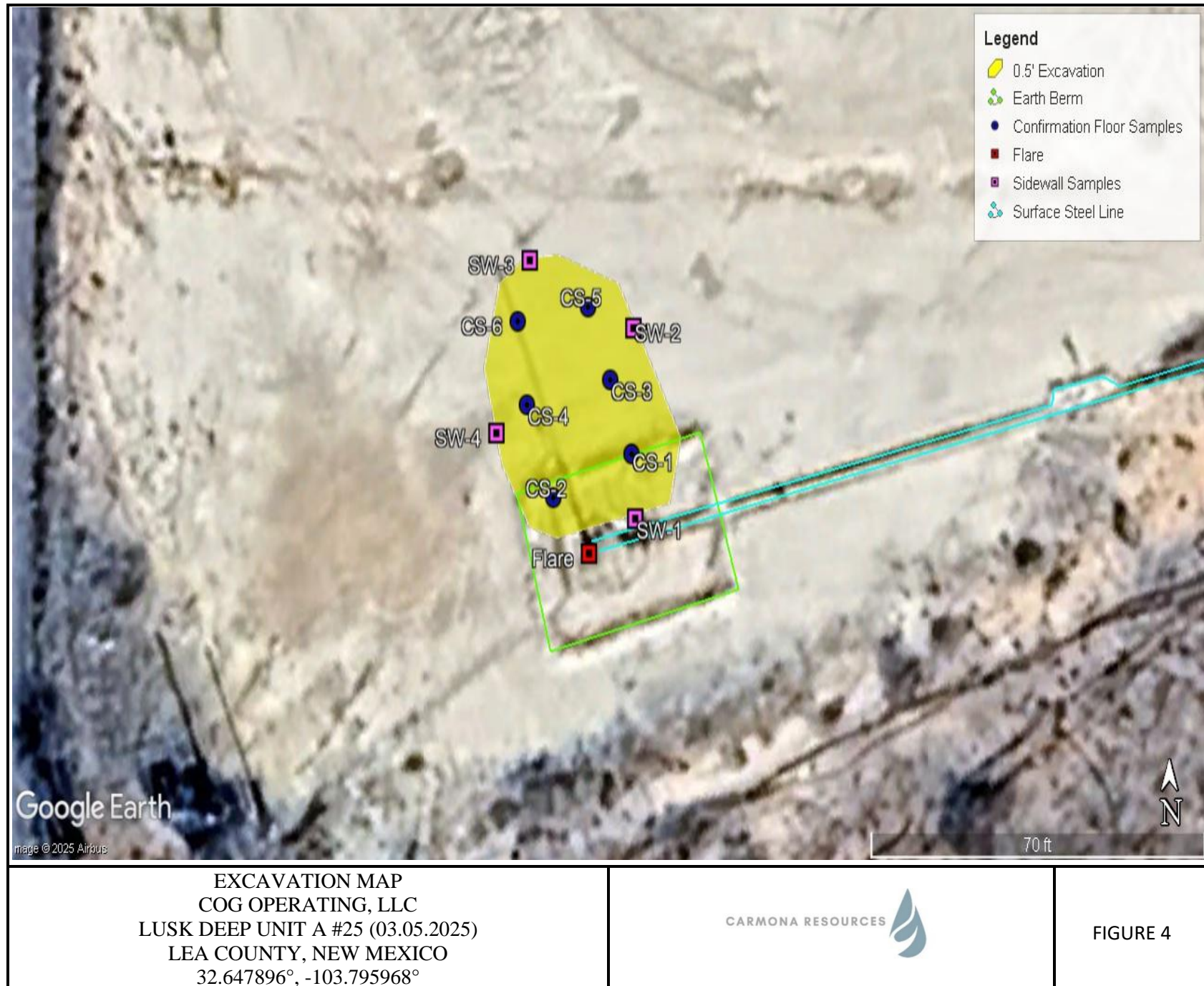


TOPOGRAPHIC MAP
 COG OPERATING, LLC
 LUSK DEEP UNIT A #25 (03.05.2025)
 LEA COUNTY, NEW MEXICO
 32.647896°, -103.795968°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
ConocoPhillips
Lusk Deep Unit A #25 (03.05.2025)
Lea County, New Mexico

Sample ID	Date	Depth (in & ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	3/21/2025	0-3"	<10.0	1,140	377	1,517	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	6"	<10.0	53.5	<10.0	53.5	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'	<10.0	31.0	<10.0	31.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
S-2	3/21/2025	0-3"	<10.0	1,510	498	2,008	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	6"	<10.0	54.2	<10.0	54.2	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'	<10.0	37.8	<10.0	37.8	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
H-1	3/21/2025	0-3"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-2	3/21/2025	0-3"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-3	3/21/2025	0-3"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-4	3/21/2025	0-3"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-5	3/21/2025	0-3"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

(H) Horizontal Sample

Removed

Table 2
Conoco Phillips
Lusk Deep Unit A #25 (03.05.2025)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	5/9/2025	0.5'	<50.2	<50.2	<50.2	<50.2	0.00253	0.00316	<0.00200	0.00411	0.0098	95.9
CS-2	5/9/2025	0.5'	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	88.4
CS-3	5/9/2025	0.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.2
CS-4	5/9/2025	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	136
CS-5	5/9/2025	0.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	151
CS-6	5/9/2025	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	135
SW-1	5/9/2025	0.5'	<50.1	<50.1	<50.1	<50.1	0.00882	<0.00201	<0.00201	0.00427	0.00131	120
SW-2	5/9/2025	0.5'	<50.3	<50.3	<50.3	<50.3	0.00929	0.00347	0.00268	<0.00396	0.0176	99.9
SW-3	5/9/2025	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	0.0021	<0.00199	<0.00398	<0.00398	114
SW-4	5/9/2025	0.5'	<50.1	<50.1	<50.1	<50.1	<0.00200	0.00228	<0.00200	<0.00399	<0.00399	127
Backfill Sample	5/16/2025	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	138
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**COG Operating, LLC****Photograph No. 1****Facility:** Lusk Deep Unit A #25 (03.05.2025)**County:** Lea County, New Mexico**Description:**

View West, of the excavation CS-3 - CS-6.

**Photograph No. 2****Facility:** Lusk Deep Unit A #25 (03.05.2025)**County:** Lea County, New Mexico**Description:**

View West, of the area of the excavation CS-1 - CS-4.

**Photograph No. 3****Facility:** Lusk Deep Unit A #25 (03.05.2025)**County:** Lea County, New Mexico**Description:**

View South, of the excavation CS-1 - CS-6.



APPENDIX C

CARMONA RESOURCES



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 439837

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 439837
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Lusk Deep Unit A #25
Date Release Discovered	03/05/2025
Surface Owner	State

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

Nature and Volume of Release <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Fire Other (Specify) Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 439837

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 439837
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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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

ACKNOWLEDGMENTS

Action 439837

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 439837
	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 439837

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 439837
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jacquih	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	3/6/2025

Convert irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	25.0	18.0	0.5	On-Pad✓	10.50%	3.34	0.35
Rectangle B				✓		0.00	
Rectangle C				✓		0.00	
Rectangle D				✓		0.00	
Rectangle E				✓		0.00	
Rectangle F				✓		0.00	
Rectangle G				✓		0.00	
Rectangle H				✓		0.00	
Rectangle I				✓		0.00	
Rectangle J				✓		0.00	
Total Subsurface Volume Released:							0.3504

Received by OCD: 6/10/2025 10:42:34AM

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Released to Imaging: 7/10/2025 4:22:50PM

Sante Fe Main Office
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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

QUESTIONS

Action 444836

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444836
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2506541672
Incident Name	NAPP2506541672 LUSK DEEP UNIT A #25 @ 30-025-40193
Incident Type	Fire
Incident Status	Initial C-141 Received
Incident Well	[30-025-40193] LUSK DEEP UNIT A #025H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Lusk Deep Unit A #25
Date Release Discovered	03/05/2025
Surface Owner	State

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

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

Sante Fe Main Office
Phone: (505) 476-3441

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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

QUESTIONS, Page 2

Action 444836

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444836
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/24/2025
--	---

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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 444836

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444836
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

Remediation Plan	
<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>	
Requesting a remediation plan approval with this submission	No
<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>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
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Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 444836

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444836
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	3/24/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 459637

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 459637
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2506541672
Incident Name	NAPP2506541672 LUSK DEEP UNIT A #25 @ 30-025-40193
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Well	[30-025-40193] LUSK DEEP UNIT A #025H

Location of Release Source	
Site Name	Lusk Deep Unit A #25
Date Release Discovered	03/05/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,390
What is the estimated number of samples that will be gathered	11
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2025
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-6823
Please provide any information necessary for navigation to sampling site	32.647949, -103.795972

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 459637

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 459637
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/7/2025

APPENDIX D

CARMONA RESOURCES



Nearest water well

COG Operating

Legend

- 0.07 Miles
- 0.29 Miles
- 0.50 Mile Radius
- 0.53 Miles
- Groundwater Determination Bore
- Lusk Deep Unit A #25 (03.05.2025)
- NMSEO Water Well



Low Karst

COG Operating

Legend

Low

Lusk Deep Unit A #25 (03.05.2025)

Lusk Deep Unit A #25 (03.05.2025)



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 smallest to largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	(meters)	(In feet)		
													Distance	Well Depth	Depth Water	Water Column
CP 00639 POD1		CP	LE		SW	NW	20	19S	32E	613029.0	3612880.0 *		111	350	345	5
CP 00640 POD1		CP	LE		NE	NE	19	19S	32E	612621.0	3613280.0 *		464	260	102	158
CP 01656 POD3		CP	LE	SW	SE	SW	17	19S	32E	613373.6	3613633.4		825	30		
CP 01656 POD2		CP	LE	SW	SE	SW	17	19S	32E	613363.5	3613648.1		833	70		
CP 01656 POD1		CP	LE	SW	SE	SW	17	19S	32E	613368.2	3613646.6		834	70		
CP 00563 POD1		CP	LE	NW	NW	NE	19	19S	32E	612118.0	3613376.0 *		925	300		
CP 00642 POD1		CP	ED		NE	NE	25	19S	31E	611025.0	3611657.0 *		2295	250		
CP 01939 POD1		CP	ED	NE	SE	NE	26	19S	31E	609488.4	3611347.2		3792			
CP 02015 POD1		CP	LE	SW	SW	SW	05	19S	32E	612911.8	3616830.4		3895	55		
CP 02015 POD1	C	CP	LE	SW	SW	SW	05	19S	32E	612911.8	3616830.4		3895	55		
CP 02017 POD1		CP	LE	SW	SE	NW	15	19S	32E	616593.8	3614503.4		3983	105		

Average Depth to Water: 223 feet

Minimum Depth: 102 feet

Maximum Depth: 345 feet

Record Count: 11

UTM Filters (in meters):

Easting: 612931.99

Northing: 3612935.44

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.

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

SANTA FE

Section 1. GENERAL INFORMATION

(A) Owner of well Phillips Petroleum Owner's Well No. CP-639-Exp.
Street or Post Office Address P.O. Box 2150
City and State Hobbs, NM 88240

Well was drilled under Permit No. TEST HOLE FOR EPA and is located in the: 16 of #1 2400' FNL & 1200' FWL
a. 1/4 1/4 SW 1/4 NW 1/4 of Section 20 Township 19S Range 32E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Larry's Drilling License No. W0882
Address 2601 W. Bender Hobbs, NM 88240
Drilling Began 2-9-82 Completed 2-10-82 Type tools tri-cone Size of hole 4 3/4 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 350 ft.
Completed well is ☐ shallow ☐ artesian. Test hole Depth to water upon completion of well 345 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY
Date Received February 23, 1982
Quad _____ FWL _____ FSL _____
File No. CP-639-Exploratory Use EXP. Location No. 19.32.20. 134423
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Section 7. REMARKS AND ADDITIONAL INFORMATION

Garry Perkins
Driller

Released to Imaging: 7/10/2025 4:22:50 PM

[illegible]

ROSKEL, M.

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

SANTA FE

Section 1. GENERAL INFORMATION
Phillips Petroleum

(A) Owner of well _____ Owner's Well No. **CP-640-Exp.**
Street or Post Office Address **P.O. Box 2130**
City and State **Hobbs, NM 88240**

Well was drilled under Permit No. **CP-640-Exploratory** and is located in the: **#1 1200'N 300'E**
a. _____ ¼ _____ ¼ **NE** _____ ¼ **NE** _____ ¼ of Section **19** Township **19S** Range **32-E** N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in **Lea** County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor **Larry's Drilling** License No. **WC882**
Address **2601 W. Bender Hobbs, NM 88240**
Drilling Began **2-8-82** Completed **2-9-82** Type tools **tri-cone** Size of hole **4 3/4"** in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well **260** ft.
Completed well is ☐ shallow ☐ artesian. **test hole** Depth to water upon completion of well **102** ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received **March 4, 1982** Quad _____ FWL _____ FSL _____
File No. **CP-640-Exploratory** Use **EXP.** Location No. **19.32.19.224431**

Section 7. REMARKS AND ADDITIONAL INFORMATION

Larry Jackson
Driller

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STATE DEPT
ROSELL, MI
MAR 4 3 29 AM '82



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) (POD 2) LUSK DEEP UNIT A #19 SB-2				OSE FILE NUMBER(S) CP-1656			
	WELL OWNER NAME(S) TETRA TECH				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 4000 N.BIG SPRING ST, STE 401				CITY Midland		STATE Tx	ZIP 79705
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 39	SECONDS 16.7	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	47	28.1	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE 1/4 OF SW 1/4 OF SE 1/4 OF SW 1/4 OF SECTION 17, TOWNSHIP 19S, RANGE 32E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD1711		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 3-28-17	DRILLING ENDED 3-28-17	DEPTH OF COMPLETED WELL (FT) 70'		BORE HOLE DEPTH (FT) 70'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0	70'	6"	N/A	N/A	N/A	N/A	N/A
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	0	2'	6"	.5 CEMENT		TOPLOAD		
	2	70'	6"	21 BAGS OF 3/8 HOLEPLUG		TOPLOAD		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

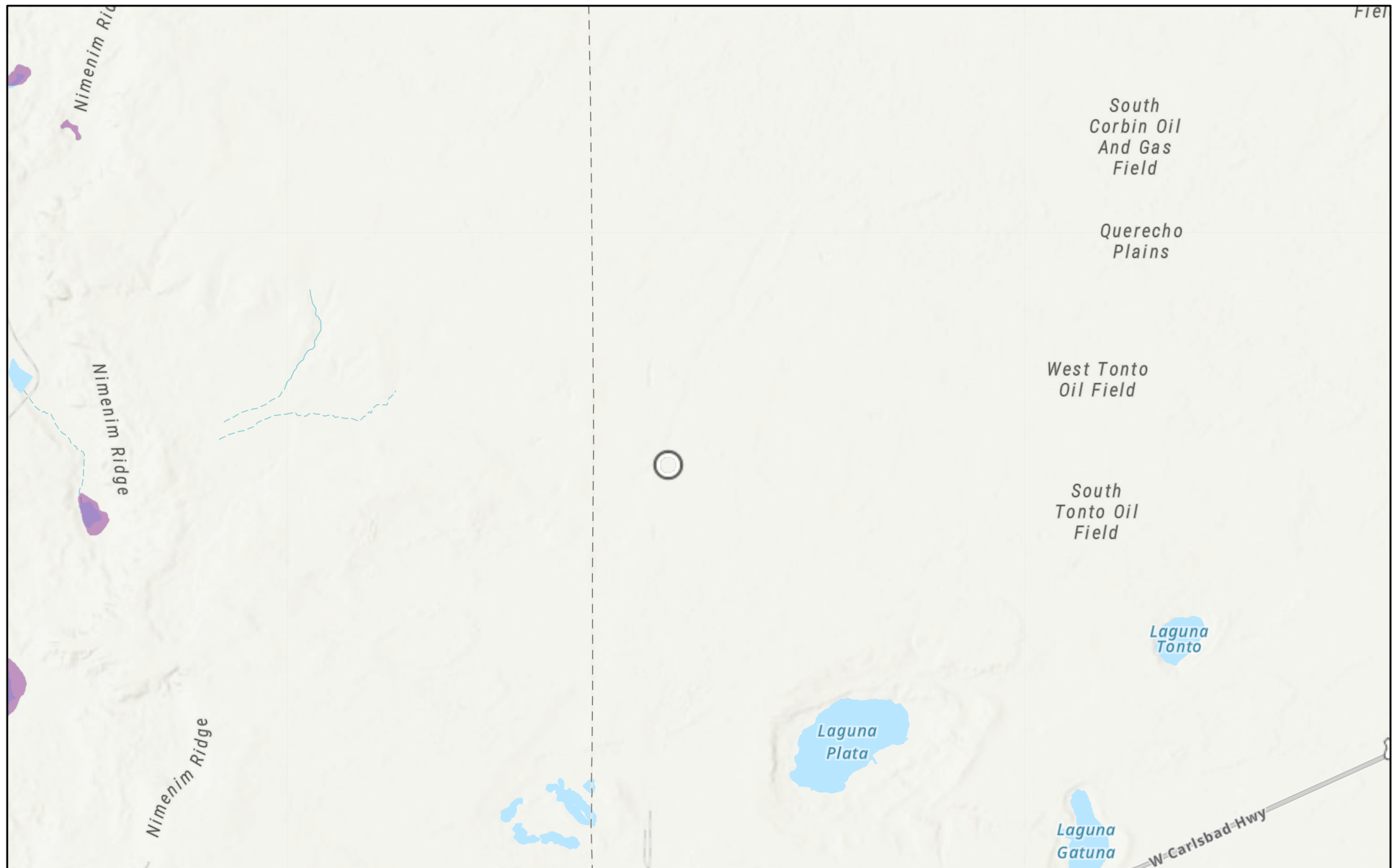
FILE NUMBER	CP-1656	POD NUMBER	2	TRN NUMBER	606732
LOCATION	19S.32E.17.343				

PAGE 1 OF 2

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Lusk Deep Unit A #25 (03.05.2025)

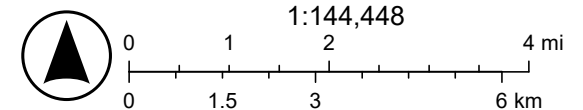


3/17/2025

USA Flood Hazard Areas

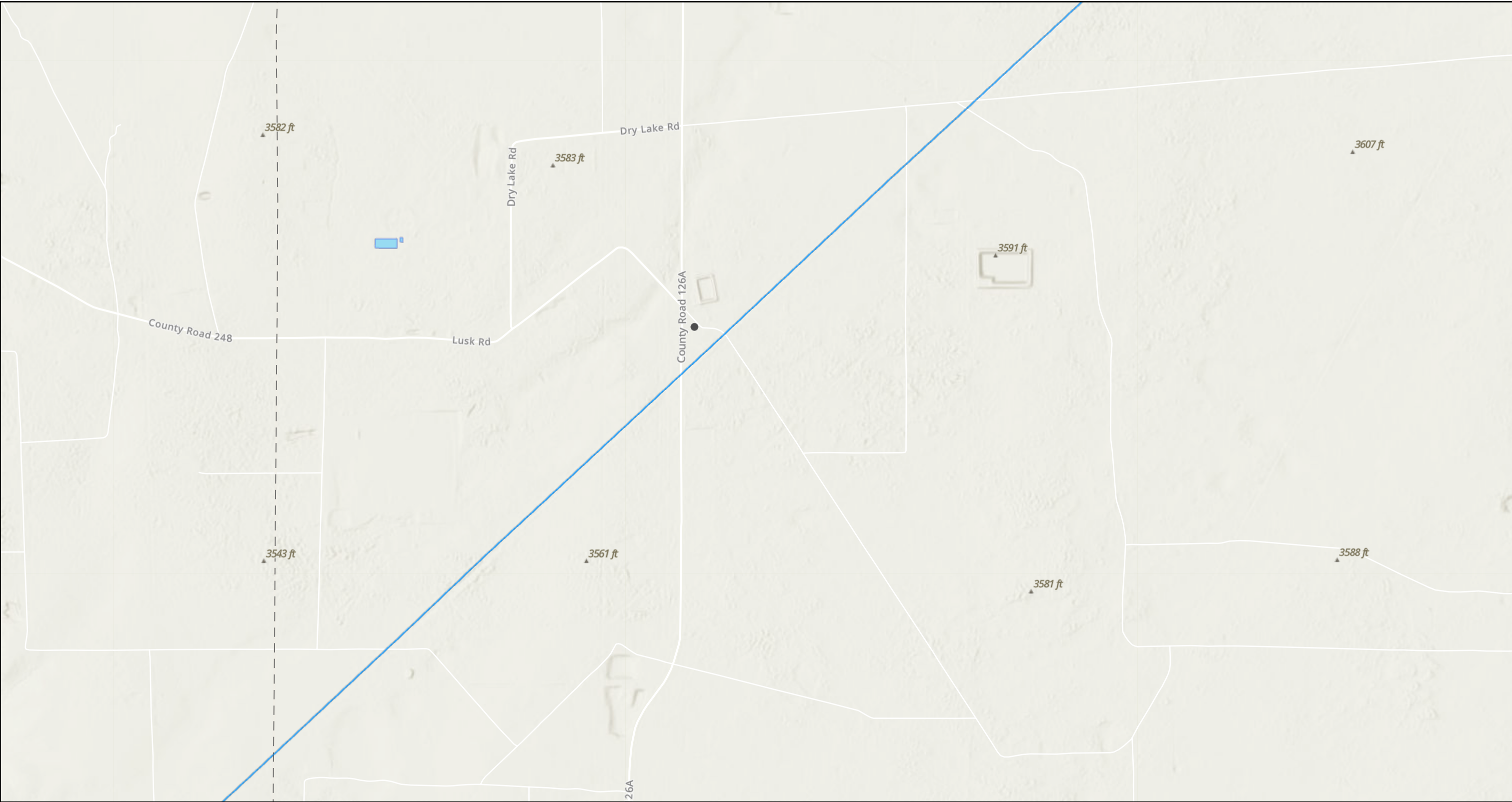
 1% Annual Chance Flood Hazard

World_Hillshade



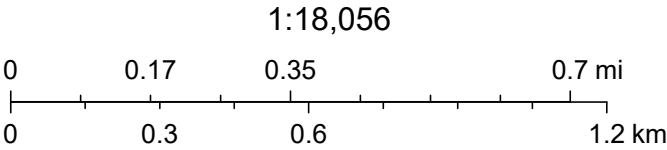
Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Lusk Deep Unit A #25 (03.05.2025)



3/17/2025, 7:19:45 AM

- OSW Water Bodys
- OSE Streams



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, NM OSE

APPENDIX E

CARMONA RESOURCES





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

March 27, 2025

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: LUSK DEEP #25 BATTERY (03.05.25)

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 (0-3") (H251670-01)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.74	87.1	2.00	12.0	
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70	
Total BTEX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: KV	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2025	ND	432	108	400	3.64	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	221	110	200	4.02	
DRO >C10-C28*	1140	10.0	03/24/2025	ND	202	101	200	5.45	
EXT DRO >C28-C36	377	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 (6") (H251670-02)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.74	87.1	2.00	12.0	
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70	
Total BTX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	221	110	200	4.02	
DRO >C10-C28*	53.5	10.0	03/24/2025	ND	202	101	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 (1') (H251670-03)

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	03/25/2025	ND	1.74	87.1	2.00	12.0		
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	221	110	200	4.02	
DRO >C10-C28*	31.0	10.0	03/24/2025	ND	202	101	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.8 % 40.6-153

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*=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 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 (1.5') (H251670-04)

BTX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2025	ND	1.74	87.1	2.00	12.0		
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70		
Total BTX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500CI-B			mg/kg					Analyzed By: KV	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2025	ND	432	108	400	3.64	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	221	110	200	4.02	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	202	101	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 40.6-153

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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 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 (0-3") (H251670-05)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.74	87.1	2.00	12.0	
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70	
Total BTX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	221	110	200	4.02	
DRO >C10-C28*	1510	10.0	03/24/2025	ND	202	101	200	5.45	
EXT DRO >C28-C36	498	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.8 % 40.6-153

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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 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 (6") (H251670-06)

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	03/25/2025	ND	1.74	87.1	2.00	12.0		
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	54.2	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 40.6-153

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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 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 (1') (H251670-07)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.74	87.1	2.00	12.0	
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70	
Total BTX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500CI-B			mg/kg					Analyzed By: KV	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2025	ND	432	108	400	3.64	

TPH 8015M			mg/kg					Analyzed By: ms	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	37.8	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.7 % 40.6-153

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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 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 (1.5') (H251670-08)

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	03/25/2025	ND	1.74	87.1	2.00	12.0		
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70		
Total BTX	<0.300	0.300	03/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/24/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.5 % 40.6-153

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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.
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: H851470

Page 1 of 1

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

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

Project Name:	Lusk Deep #25 Battery (03.05.25)	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	2679	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO	DI Water: H ₂ O			
Project Location:	Eddy County, New Mexico	Due Date:	Standard TAT													Cool: Cool	Mech: Me			
Sampler's Name:	JM															HCL: HC	HNO ₃ : HN			
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												Sample Comments		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:																		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:																		
Total Containers:		Corrected Temperature:																		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont														
S-1 (0-3")	3/21/2025		X		G	1	X	X	X											
S-1 (6")	3/21/2025		X		G	1	X	X	X											
S-1 (1')	3/21/2025		X		G	1	X	X	X											
S-1 (1.5')	3/21/2025		X		G	1	X	X	X											
S-2 (0-3")	3/21/2025		X		G	1	X	X	X											
S-2 (6")	3/21/2025		X		G	1	X	X	X											
S-2 (1')	3/21/2025		X		G	1	X	X	X											
S-2 (1.5')	3/21/2025		X		G	1	X	X	X											

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

Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time
		3/21/25 11:00			



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

March 27, 2025

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: LUSK DEEP #25 BATTERY (03.05.25)

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 1 (0-3") (H251671-01)

BTX 8021B		mg/ kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.74	87.1	2.00	12.0	
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70	
Total BTX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: KV	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2025	ND	432	108	400	3.64	

TPH 8015M			mg/kg					Analyzed By: ms	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 66.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 56.5 % 40.6-153

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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 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 2 (0-3") (H251671-02)

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	03/25/2025	ND	1.74	87.1	2.00	12.0		
Toluene*	<0.050	0.050	03/25/2025	ND	2.02	101	2.00	10.7		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.25	113	2.00	8.84		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.90	115	6.00	8.70		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	03/24/2025	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 62.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 53.3 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 3 (0-3") (H251671-03)

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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	32.0	16.0	03/24/2025	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 69.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.1 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 4 (0-3") (H251671-04)

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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/24/2025	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 71.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.7 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: LUSK DEEP #25 BATTERY (03.05.25)
 Project Number: 2679
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 5 (0-3") (H251671-05)

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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	32.0	16.0	03/24/2025	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.0 % 40.6-153

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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.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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: 17851471

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/14/2025 4:54:19 PM

JOB DESCRIPTION

Lusk Deep #25 Battery (03.05.25)
Eddy County, New Mexico

JOB NUMBER

880-58042-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Laboratory Job ID: 880-58042-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1

Job ID: 880-58042-1

Eurofins Midland

Job Narrative 880-58042-1

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

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

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

Receipt

The samples were received on 5/13/2025 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-2 (0.5') (880-58042-8) and (880-58042-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 880-109952 and analytical batch 880-110067 were outside control limits: (890-8144-A-47-D MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (0.5')

Lab Sample ID: 880-58042-1

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00253		0.00200		mg/Kg		05/13/25 11:14	05/13/25 15:18	1
Toluene	0.00316		0.00200		mg/Kg		05/13/25 11:14	05/13/25 15:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 15:18	1
m,p-Xylenes	0.00411		0.00399		mg/Kg		05/13/25 11:14	05/13/25 15:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 15:18	1
Xylenes, Total	0.00411		0.00399		mg/Kg		05/13/25 11:14	05/13/25 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	05/13/25 11:14	05/13/25 15:18	1
1,4-Difluorobenzene (Surr)	117		70 - 130	05/13/25 11:14	05/13/25 15:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00980		0.00399		mg/Kg			05/13/25 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/13/25 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/12/25 11:04	05/13/25 16:33	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/12/25 11:04	05/13/25 16:33	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/12/25 11:04	05/13/25 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130	05/12/25 11:04	05/13/25 16:33	1
o-Terphenyl (Surr)	80		70 - 130	05/12/25 11:04	05/13/25 16:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.9		9.96		mg/Kg			05/13/25 20:02	1

Client Sample ID: CS-2 (0.5')

Lab Sample ID: 880-58042-2

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 15:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 15:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 15:39	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/13/25 11:14	05/13/25 15:39	1
o-Xylene	0.00342		0.00200		mg/Kg		05/13/25 11:14	05/13/25 15:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/13/25 11:14	05/13/25 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/13/25 11:14	05/13/25 15:39	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/13/25 11:14	05/13/25 15:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (0.5')

Lab Sample ID: 880-58042-2

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/13/25 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			05/13/25 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		05/12/25 11:04	05/13/25 16:49	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		05/12/25 11:04	05/13/25 16:49	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		05/12/25 11:04	05/13/25 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130				05/12/25 11:04	05/13/25 16:49	1
o-Terphenyl (Surr)	86		70 - 130				05/12/25 11:04	05/13/25 16:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.4		9.96		mg/Kg			05/13/25 20:23	1

Client Sample ID: CS-3 (0.5')

Lab Sample ID: 880-58042-3

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 15:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 15:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 15:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/13/25 11:14	05/13/25 15:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 15:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/13/25 11:14	05/13/25 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				05/13/25 11:14	05/13/25 15:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130				05/13/25 11:14	05/13/25 15:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/25 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/13/25 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/12/25 11:04	05/13/25 17:06	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/12/25 11:04	05/13/25 17:06	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (0.5')

Lab Sample ID: 880-58042-3

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/12/25 11:04	05/13/25 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130				05/12/25 11:04	05/13/25 17:06	1
o-Terphenyl (Surr)	87		70 - 130				05/12/25 11:04	05/13/25 17:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.2		9.98		mg/Kg			05/13/25 20:30	1

Client Sample ID: CS-4 (0.5')

Lab Sample ID: 880-58042-4

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 16:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 16:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 16:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/13/25 11:14	05/13/25 16:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 16:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/13/25 11:14	05/13/25 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				05/13/25 11:14	05/13/25 16:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130				05/13/25 11:14	05/13/25 16:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/25 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/13/25 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/25 11:04	05/13/25 17:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/25 11:04	05/13/25 17:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/25 11:04	05/13/25 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130				05/12/25 11:04	05/13/25 17:22	1
o-Terphenyl (Surr)	89		70 - 130				05/12/25 11:04	05/13/25 17:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		10.0		mg/Kg			05/13/25 20:37	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-5 (0.5')

Lab Sample ID: 880-58042-5

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 16:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 16:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 16:40	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/13/25 11:14	05/13/25 16:40	1
o-Xylene	0.00208		0.00199		mg/Kg		05/13/25 11:14	05/13/25 16:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/13/25 11:14	05/13/25 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/13/25 11:14	05/13/25 16:40	1
1,4-Difluorobenzene (Surr)	107		70 - 130	05/13/25 11:14	05/13/25 16:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/25 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/13/25 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/12/25 11:04	05/13/25 17:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/12/25 11:04	05/13/25 17:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/25 11:04	05/13/25 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	05/12/25 11:04	05/13/25 17:38	1
o-Terphenyl (Surr)	96		70 - 130	05/12/25 11:04	05/13/25 17:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		9.90		mg/Kg			05/13/25 20:44	1

Client Sample ID: CS-6 (0.5')

Lab Sample ID: 880-58042-6

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/13/25 11:14	05/13/25 17:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/13/25 11:14	05/13/25 17:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/13/25 11:14	05/13/25 17:01	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		05/13/25 11:14	05/13/25 17:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/13/25 11:14	05/13/25 17:01	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/13/25 11:14	05/13/25 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/13/25 11:14	05/13/25 17:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/13/25 11:14	05/13/25 17:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-6 (0.5')

Lab Sample ID: 880-58042-6

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/13/25 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/13/25 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/25 11:04	05/13/25 17:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/25 11:04	05/13/25 17:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/25 11:04	05/13/25 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130				05/12/25 11:04	05/13/25 17:55	1
o-Terphenyl (Surr)	89		70 - 130				05/12/25 11:04	05/13/25 17:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		9.90		mg/Kg			05/13/25 21:05	1

Client Sample ID: SW-1 (0.5')

Lab Sample ID: 880-58042-7

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00882		0.00201		mg/Kg		05/13/25 11:14	05/13/25 17:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/13/25 11:14	05/13/25 17:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/13/25 11:14	05/13/25 17:21	1
m,p-Xylenes	0.00427		0.00402		mg/Kg		05/13/25 11:14	05/13/25 17:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/13/25 11:14	05/13/25 17:21	1
Xylenes, Total	0.00427		0.00402		mg/Kg		05/13/25 11:14	05/13/25 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/13/25 11:14	05/13/25 17:21	1
1,4-Difluorobenzene (Surr)	110		70 - 130				05/13/25 11:14	05/13/25 17:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0131		0.00402		mg/Kg			05/13/25 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/13/25 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/12/25 11:04	05/13/25 18:11	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/12/25 11:04	05/13/25 18:11	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (0.5')

Lab Sample ID: 880-58042-7

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/12/25 11:04	05/13/25 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130				05/12/25 11:04	05/13/25 18:11	1
o-Terphenyl (Surr)	89		70 - 130				05/12/25 11:04	05/13/25 18:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		10.1		mg/Kg			05/13/25 21:13	1

Client Sample ID: SW-2 (0.5')

Lab Sample ID: 880-58042-8

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00929		0.00198		mg/Kg		05/13/25 11:14	05/13/25 17:42	1
Toluene	0.00347		0.00198		mg/Kg		05/13/25 11:14	05/13/25 17:42	1
Ethylbenzene	0.00268		0.00198		mg/Kg		05/13/25 11:14	05/13/25 17:42	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		05/13/25 11:14	05/13/25 17:42	1
o-Xylene	0.00212		0.00198		mg/Kg		05/13/25 11:14	05/13/25 17:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/13/25 11:14	05/13/25 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/13/25 11:14	05/13/25 17:42	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130				05/13/25 11:14	05/13/25 17:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0176		0.00396		mg/Kg			05/13/25 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/13/25 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/12/25 11:04	05/13/25 18:27	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/12/25 11:04	05/13/25 18:27	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/12/25 11:04	05/13/25 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130				05/12/25 11:04	05/13/25 18:27	1
o-Terphenyl (Surr)	86		70 - 130				05/12/25 11:04	05/13/25 18:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.9		9.98		mg/Kg			05/13/25 21:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (0.5')

Lab Sample ID: 880-58042-9

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 18:02	1
Toluene	0.00210		0.00199		mg/Kg		05/13/25 11:14	05/13/25 18:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 18:02	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/13/25 11:14	05/13/25 18:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/13/25 11:14	05/13/25 18:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/13/25 11:14	05/13/25 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				05/13/25 11:14	05/13/25 18:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/13/25 11:14	05/13/25 18:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/13/25 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/13/25 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/25 11:04	05/13/25 18:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/25 11:04	05/13/25 18:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/25 11:04	05/13/25 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130				05/12/25 11:04	05/13/25 18:43	1
o-Terphenyl (Surr)	88		70 - 130				05/12/25 11:04	05/13/25 18:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		10.1		mg/Kg			05/13/25 21:27	1

Client Sample ID: SW-4 (0.5')

Lab Sample ID: 880-58042-10

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 18:23	1
Toluene	0.00228		0.00200		mg/Kg		05/13/25 11:14	05/13/25 18:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 18:23	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/13/25 11:14	05/13/25 18:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 18:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/13/25 11:14	05/13/25 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				05/13/25 11:14	05/13/25 18:23	1
1,4-Difluorobenzene (Surr)	101		70 - 130				05/13/25 11:14	05/13/25 18:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (0.5')

Lab Sample ID: 880-58042-10

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/13/25 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/13/25 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/12/25 11:04	05/13/25 19:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/12/25 11:04	05/13/25 19:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/12/25 11:04	05/13/25 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130				05/12/25 11:04	05/13/25 19:15	1
o-Terphenyl (Surr)	90		70 - 130				05/12/25 11:04	05/13/25 19:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		10.0		mg/Kg			05/13/25 21:34	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-58042-1	CS-1 (0.5')	110	117				
880-58042-1 MS	CS-1 (0.5')	96	108				
880-58042-1 MSD	CS-1 (0.5')	92	134 S1+				
880-58042-2	CS-2 (0.5')	102	104				
880-58042-3	CS-3 (0.5')	89	101				
880-58042-4	CS-4 (0.5')	94	101				
880-58042-5	CS-5 (0.5')	97	107				
880-58042-6	CS-6 (0.5')	109	101				
880-58042-7	SW-1 (0.5')	105	110				
880-58042-8	SW-2 (0.5')	105	136 S1+				
880-58042-9	SW-3 (0.5')	99	95				
880-58042-10	SW-4 (0.5')	115	101				
LCS 880-110026/1-A	Lab Control Sample	91	102				
LCSD 880-110026/2-A	Lab Control Sample Dup	105	101				
MB 880-110026/5-A	Method Blank	95	94				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-58042-1	CS-1 (0.5')	79	80				
880-58042-2	CS-2 (0.5')	85	86				
880-58042-3	CS-3 (0.5')	88	87				
880-58042-4	CS-4 (0.5')	84	89				
880-58042-5	CS-5 (0.5')	90	96				
880-58042-6	CS-6 (0.5')	84	89				
880-58042-7	SW-1 (0.5')	83	89				
880-58042-8	SW-2 (0.5')	81	86				
880-58042-9	SW-3 (0.5')	84	88				
880-58042-10	SW-4 (0.5')	88	90				
890-8144-A-47-C MS	Matrix Spike	103	94				
890-8144-A-47-D MSD	Matrix Spike Duplicate	90	94				
LCS 880-109952/2-A	Lab Control Sample	114	102				
LCSD 880-109952/3-A	Lab Control Sample Dup	112	101				
MB 880-109952/1-A	Method Blank	97	92				
Surrogate Legend							
1CO = 1-Chlorooctane (Surr)							
OTPH = o-Terphenyl (Surr)							

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QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110026/5-A

Matrix: Solid

Analysis Batch: 110048

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 14:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 14:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 14:56	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/13/25 11:14	05/13/25 14:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/13/25 11:14	05/13/25 14:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/13/25 11:14	05/13/25 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/13/25 11:14	05/13/25 14:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/13/25 11:14	05/13/25 14:56	1

Lab Sample ID: LCS 880-110026/1-A

Matrix: Solid

Analysis Batch: 110048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1090		mg/Kg		109	70 - 130
Toluene	0.100	0.08509		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08590		mg/Kg		86	70 - 130
m,p-Xylenes	0.200	0.1699		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08891		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-110026/2-A

Matrix: Solid

Analysis Batch: 110048

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1015		mg/Kg		102	70 - 130	7	35
Toluene	0.100	0.09080		mg/Kg		91	70 - 130	6	35
Ethylbenzene	0.100	0.09622		mg/Kg		96	70 - 130	11	35
m,p-Xylenes	0.200	0.2072		mg/Kg		104	70 - 130	20	35
o-Xylene	0.100	0.09823		mg/Kg		98	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-58042-1 MS

Matrix: Solid

Analysis Batch: 110048

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 110026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00253		0.100	0.1065		mg/Kg		104	70 - 130
Toluene	0.00316		0.100	0.08576		mg/Kg		83	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-58042-1 MS

Matrix: Solid

Analysis Batch: 110048

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 110026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08484		mg/Kg		84	70 - 130
m,p-Xylenes	0.00411		0.200	0.1638		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.100	0.08168		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-58042-1 MSD

Matrix: Solid

Analysis Batch: 110048

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 110026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00253		0.100	0.09403		mg/Kg		91	70 - 130	12	35
Toluene	0.00316		0.100	0.08462		mg/Kg		81	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09405		mg/Kg		93	70 - 130	10	35
m,p-Xylenes	0.00411		0.200	0.1594		mg/Kg		78	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.07919		mg/Kg		79	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130

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

Lab Sample ID: MB 880-109952/1-A

Matrix: Solid

Analysis Batch: 110067

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 109952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/25 11:04	05/13/25 04:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/25 11:04	05/13/25 04:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/25 11:04	05/13/25 04:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	05/12/25 11:04	05/13/25 04:27	1
o-Terphenyl (Surr)	92		70 - 130	05/12/25 11:04	05/13/25 04:27	1

Lab Sample ID: LCS 880-109952/2-A

Matrix: Solid

Analysis Batch: 110067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 109952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	845.2		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	815.4		mg/Kg		82	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-109952/2-A

Matrix: Solid

Analysis Batch: 110067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 109952

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-109952/3-A

Matrix: Solid

Analysis Batch: 110067

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 109952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	804.1		mg/Kg		80	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	795.7		mg/Kg		80	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	112		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: 890-8144-A-47-C MS

Matrix: Solid

Analysis Batch: 110067

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 109952

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	998	696.2		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	998	718.1		mg/Kg		72	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	94		70 - 130

Lab Sample ID: 890-8144-A-47-D MSD

Matrix: Solid

Analysis Batch: 110067

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 109952

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	998	691.1	F1	mg/Kg		69	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	998	763.7		mg/Kg		77	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	94		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110041/1-A
Matrix: Solid
Analysis Batch: 110065

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/13/25 19:41	1

Lab Sample ID: LCS 880-110041/2-A
Matrix: Solid
Analysis Batch: 110065

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-110041/3-A
Matrix: Solid
Analysis Batch: 110065

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.2		mg/Kg		96	90 - 110	5	20

Lab Sample ID: 880-58042-1 MS
Matrix: Solid
Analysis Batch: 110065

Client Sample ID: CS-1 (0.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	95.9		249	363.9		mg/Kg		108	90 - 110

Lab Sample ID: 880-58042-1 MSD
Matrix: Solid
Analysis Batch: 110065

Client Sample ID: CS-1 (0.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	95.9		249	361.8		mg/Kg		107	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 110026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58042-1	CS-1 (0.5')	Total/NA	Solid	5035	
880-58042-2	CS-2 (0.5')	Total/NA	Solid	5035	
880-58042-3	CS-3 (0.5')	Total/NA	Solid	5035	
880-58042-4	CS-4 (0.5')	Total/NA	Solid	5035	
880-58042-5	CS-5 (0.5')	Total/NA	Solid	5035	
880-58042-6	CS-6 (0.5')	Total/NA	Solid	5035	
880-58042-7	SW-1 (0.5')	Total/NA	Solid	5035	
880-58042-8	SW-2 (0.5')	Total/NA	Solid	5035	
880-58042-9	SW-3 (0.5')	Total/NA	Solid	5035	
880-58042-10	SW-4 (0.5')	Total/NA	Solid	5035	
MB 880-110026/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110026/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110026/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58042-1 MS	CS-1 (0.5')	Total/NA	Solid	5035	
880-58042-1 MSD	CS-1 (0.5')	Total/NA	Solid	5035	

Analysis Batch: 110048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58042-1	CS-1 (0.5')	Total/NA	Solid	8021B	110026
880-58042-2	CS-2 (0.5')	Total/NA	Solid	8021B	110026
880-58042-3	CS-3 (0.5')	Total/NA	Solid	8021B	110026
880-58042-4	CS-4 (0.5')	Total/NA	Solid	8021B	110026
880-58042-5	CS-5 (0.5')	Total/NA	Solid	8021B	110026
880-58042-6	CS-6 (0.5')	Total/NA	Solid	8021B	110026
880-58042-7	SW-1 (0.5')	Total/NA	Solid	8021B	110026
880-58042-8	SW-2 (0.5')	Total/NA	Solid	8021B	110026
880-58042-9	SW-3 (0.5')	Total/NA	Solid	8021B	110026
880-58042-10	SW-4 (0.5')	Total/NA	Solid	8021B	110026
MB 880-110026/5-A	Method Blank	Total/NA	Solid	8021B	110026
LCS 880-110026/1-A	Lab Control Sample	Total/NA	Solid	8021B	110026
LCSD 880-110026/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110026
880-58042-1 MS	CS-1 (0.5')	Total/NA	Solid	8021B	110026
880-58042-1 MSD	CS-1 (0.5')	Total/NA	Solid	8021B	110026

Analysis Batch: 110159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58042-1	CS-1 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-2	CS-2 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-3	CS-3 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-4	CS-4 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-5	CS-5 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-6	CS-6 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-7	SW-1 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-8	SW-2 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-9	SW-3 (0.5')	Total/NA	Solid	Total BTEX	
880-58042-10	SW-4 (0.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

GC Semi VOA

Prep Batch: 109952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58042-1	CS-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-2	CS-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-3	CS-3 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-4	CS-4 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-5	CS-5 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-6	CS-6 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-7	SW-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-8	SW-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-9	SW-3 (0.5')	Total/NA	Solid	8015NM Prep	
880-58042-10	SW-4 (0.5')	Total/NA	Solid	8015NM Prep	
MB 880-109952/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109952/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109952/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8144-A-47-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8144-A-47-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58042-1	CS-1 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-2	CS-2 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-3	CS-3 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-4	CS-4 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-5	CS-5 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-6	CS-6 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-7	SW-1 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-8	SW-2 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-9	SW-3 (0.5')	Total/NA	Solid	8015B NM	109952
880-58042-10	SW-4 (0.5')	Total/NA	Solid	8015B NM	109952
MB 880-109952/1-A	Method Blank	Total/NA	Solid	8015B NM	109952
LCS 880-109952/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109952
LCSD 880-109952/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109952
890-8144-A-47-C MS	Matrix Spike	Total/NA	Solid	8015B NM	109952
890-8144-A-47-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109952

Analysis Batch: 110132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58042-1	CS-1 (0.5')	Total/NA	Solid	8015 NM	
880-58042-2	CS-2 (0.5')	Total/NA	Solid	8015 NM	
880-58042-3	CS-3 (0.5')	Total/NA	Solid	8015 NM	
880-58042-4	CS-4 (0.5')	Total/NA	Solid	8015 NM	
880-58042-5	CS-5 (0.5')	Total/NA	Solid	8015 NM	
880-58042-6	CS-6 (0.5')	Total/NA	Solid	8015 NM	
880-58042-7	SW-1 (0.5')	Total/NA	Solid	8015 NM	
880-58042-8	SW-2 (0.5')	Total/NA	Solid	8015 NM	
880-58042-9	SW-3 (0.5')	Total/NA	Solid	8015 NM	
880-58042-10	SW-4 (0.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 110041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58042-1	CS-1 (0.5')	Soluble	Solid	DI Leach	
880-58042-2	CS-2 (0.5')	Soluble	Solid	DI Leach	
880-58042-3	CS-3 (0.5')	Soluble	Solid	DI Leach	
880-58042-4	CS-4 (0.5')	Soluble	Solid	DI Leach	
880-58042-5	CS-5 (0.5')	Soluble	Solid	DI Leach	
880-58042-6	CS-6 (0.5')	Soluble	Solid	DI Leach	
880-58042-7	SW-1 (0.5')	Soluble	Solid	DI Leach	
880-58042-8	SW-2 (0.5')	Soluble	Solid	DI Leach	
880-58042-9	SW-3 (0.5')	Soluble	Solid	DI Leach	
880-58042-10	SW-4 (0.5')	Soluble	Solid	DI Leach	
MB 880-110041/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110041/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110041/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58042-1 MS	CS-1 (0.5')	Soluble	Solid	DI Leach	
880-58042-1 MSD	CS-1 (0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 110065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58042-1	CS-1 (0.5')	Soluble	Solid	300.0	110041
880-58042-2	CS-2 (0.5')	Soluble	Solid	300.0	110041
880-58042-3	CS-3 (0.5')	Soluble	Solid	300.0	110041
880-58042-4	CS-4 (0.5')	Soluble	Solid	300.0	110041
880-58042-5	CS-5 (0.5')	Soluble	Solid	300.0	110041
880-58042-6	CS-6 (0.5')	Soluble	Solid	300.0	110041
880-58042-7	SW-1 (0.5')	Soluble	Solid	300.0	110041
880-58042-8	SW-2 (0.5')	Soluble	Solid	300.0	110041
880-58042-9	SW-3 (0.5')	Soluble	Solid	300.0	110041
880-58042-10	SW-4 (0.5')	Soluble	Solid	300.0	110041
MB 880-110041/1-A	Method Blank	Soluble	Solid	300.0	110041
LCS 880-110041/2-A	Lab Control Sample	Soluble	Solid	300.0	110041
LCSD 880-110041/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110041
880-58042-1 MS	CS-1 (0.5')	Soluble	Solid	300.0	110041
880-58042-1 MSD	CS-1 (0.5')	Soluble	Solid	300.0	110041

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (0.5')

Lab Sample ID: 880-58042-1

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 15:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 16:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 16:33	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 20:02	CH	EET MID

Client Sample ID: CS-2 (0.5')

Lab Sample ID: 880-58042-2

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 15:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 15:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 16:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 16:49	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 20:23	CH	EET MID

Client Sample ID: CS-3 (0.5')

Lab Sample ID: 880-58042-3

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 15:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 15:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 17:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 17:06	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 20:30	CH	EET MID

Client Sample ID: CS-4 (0.5')

Lab Sample ID: 880-58042-4

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 16:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 16:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (0.5')

Lab Sample ID: 880-58042-4

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110132	05/13/25 17:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 17:22	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 20:37	CH	EET MID

Client Sample ID: CS-5 (0.5')

Lab Sample ID: 880-58042-5

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 16:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 17:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 17:38	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 20:44	CH	EET MID

Client Sample ID: CS-6 (0.5')

Lab Sample ID: 880-58042-6

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 17:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 17:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 17:55	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 21:05	CH	EET MID

Client Sample ID: SW-1 (0.5')

Lab Sample ID: 880-58042-7

Date Collected: 05/09/25 00:00

Matrix: Solid

Date Received: 05/13/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 18:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 18:11	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (0.5')

Date Collected: 05/09/25 00:00

Date Received: 05/13/25 10:25

Lab Sample ID: 880-58042-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 21:13	CH	EET MID

Client Sample ID: SW-2 (0.5')

Date Collected: 05/09/25 00:00

Date Received: 05/13/25 10:25

Lab Sample ID: 880-58042-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 17:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 18:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 18:27	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 21:20	CH	EET MID

Client Sample ID: SW-3 (0.5')

Date Collected: 05/09/25 00:00

Date Received: 05/13/25 10:25

Lab Sample ID: 880-58042-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 18:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 18:43	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 21:27	CH	EET MID

Client Sample ID: SW-4 (0.5')

Date Collected: 05/09/25 00:00

Date Received: 05/13/25 10:25

Lab Sample ID: 880-58042-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110026	05/13/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110048	05/13/25 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110159	05/13/25 18:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			110132	05/13/25 19:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	109952	05/12/25 11:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110067	05/13/25 19:15	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110041	05/13/25 11:43	SA	EET MID
Soluble	Analysis	300.0		1			110065	05/13/25 21:34	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Lusk Deep #25 Battery (03.05.25)

Job ID: 880-58042-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58042-1	CS-1 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-2	CS-2 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-3	CS-3 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-4	CS-4 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-5	CS-5 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-6	CS-6 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-7	SW-1 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-8	SW-2 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-9	SW-3 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25
880-58042-10	SW-4 (0.5')	Solid	05/09/25 00:00	05/13/25 10:25

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Chain of Custody



880-58042 Chain of Custody

1

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

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

Project Name:		Turn Around		Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:		Due Date:		Rush		Parameters		BTEX 8021B		TPH 8015M (GRO + DRO + MRO)		Chlorides 300.0		Sample Comments			
Project Location:		Due Date:		Rush		Parameters		BTEX 8021B		TPH 8015M (GRO + DRO + MRO)		Chlorides 300.0		Sample Comments			
Sampler's Name:		Due Date:		Rush		Parameters		BTEX 8021B		TPH 8015M (GRO + DRO + MRO)		Chlorides 300.0		Sample Comments			
PO #:		Due Date:		Rush		Parameters		BTEX 8021B		TPH 8015M (GRO + DRO + MRO)		Chlorides 300.0		Sample Comments			
SAMPLE RECEIPT		Temp Blank:		Wet Ice:		Thermometer ID:		Correction Factor:		Temperature Reading:		Corrected Temperature:					
Received Intact:		Yes No		Yes No		Thermometer ID:		Correction Factor:		Temperature Reading:		Corrected Temperature:					
Cooler Custody Seals:		Yes No		N/A		N/A		N/A		N/A		N/A					
Sample Custody Seals:		Yes No		N/A		N/A		N/A		N/A		N/A					
Total Containers:		N/A		N/A		N/A		N/A		N/A		N/A					
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont					
CS-1 (0.5')		5/9/2025				X				Comp		1		X			
CS-2 (0.5')		5/9/2025				X				Comp		1		X			
CS-3 (0.5')		5/9/2025				X				Comp		1		X			
CS-4 (0.5')		5/9/2025				X				Comp		1		X			
CS-5 (0.5')		5/9/2025				X				Comp		1		X			
CS-6 (0.5')		5/9/2025				X				Comp		1		X			
SW-1 (0.5')		5/9/2025				X				Comp		1		X			
SW-2 (0.5')		5/9/2025				X				Comp		1		X			
SW-3 (0.5')		5/9/2025				X				Comp		1		X			
SW-4 (0.5')		5/9/2025				X				Comp		1		X			

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	5/13/25 @ 10:25	<i>[Signature]</i>	5/14/25 @ 10:25

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-58042-1
SDG Number: Eddy County, New Mexico

Login Number: 58042

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/21/2025 12:04:33 PM

JOB DESCRIPTION

Black Pearl 1 Federal 1H
2698

JOB NUMBER

880-58332-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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5/21/2025 12:04:33 PM

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

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Laboratory Job ID: 880-58332-1
SDG: 2698

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Black Pearl 1 Federal 1H

Job ID: 880-58332-1

Job ID: 880-58332-1

Eurofins Midland

Job Narrative 880-58332-1

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

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

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

Receipt

The sample was received on 5/20/2025 10:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110499 and analytical batch 880-110543 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110545 and analytical batch 880-110549 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: Backfill Material (880-58332-1), (880-58313-A-1-E), (880-58313-A-1-F MS) and (880-58313-A-1-G MSD).

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

Client Sample ID: Backfill Material

Lab Sample ID: 880-58332-1

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:00	05/20/25 19:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:00	05/20/25 19:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:00	05/20/25 19:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/20/25 11:00	05/20/25 19:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:00	05/20/25 19:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 11:00	05/20/25 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/20/25 11:00	05/20/25 19:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/20/25 11:00	05/20/25 19:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/20/25 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/20/25 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 21:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 21:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	05/20/25 08:15	05/20/25 21:49	1
o-Terphenyl (Surr)	112		70 - 130	05/20/25 08:15	05/20/25 21:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		9.98		mg/Kg			05/21/25 00:09	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-58332-1	Backfill Material	90	97
890-8178-A-1-C MS	Matrix Spike	98	107
890-8178-A-1-D MSD	Matrix Spike Duplicate	102	99
LCS 880-110499/1-A	Lab Control Sample	103	110
LCSD 880-110499/2-A	Lab Control Sample Dup	110	101
MB 880-110499/5-A	Method Blank	86	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-58332-1	Backfill Material	108	112
890-8183-A-1-B MS	Matrix Spike	118	120
890-8183-A-1-C MSD	Matrix Spike Duplicate	119	120
LCS 880-110486/2-A	Lab Control Sample	116	117
LCSD 880-110486/3-A	Lab Control Sample Dup	103	105
MB 880-110486/1-A	Method Blank	106	113
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110499/5-A

Matrix: Solid

Analysis Batch: 110543

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110499

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 09:03	05/20/25 17:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	05/20/25 09:03	05/20/25 17:26	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/20/25 09:03	05/20/25 17:26	1

Lab Sample ID: LCS 880-110499/1-A

Matrix: Solid

Analysis Batch: 110543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110499

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1095		mg/Kg		109	70 - 130
Toluene	0.100	0.09614		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1226		mg/Kg		123	70 - 130
m,p-Xylenes	0.200	0.2287		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-110499/2-A

Matrix: Solid

Analysis Batch: 110543

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110499

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1089		mg/Kg		109	70 - 130	1	35
Toluene	0.100	0.1072		mg/Kg		107	70 - 130	11	35
Ethylbenzene	0.100	0.1245		mg/Kg		125	70 - 130	2	35
m,p-Xylenes	0.200	0.2317		mg/Kg		116	70 - 130	1	35
o-Xylene	0.100	0.1160		mg/Kg		116	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-8178-A-1-C MS

Matrix: Solid

Analysis Batch: 110543

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.100	0.05475	F1	mg/Kg		55	70 - 130
Toluene	<0.00200	U F1 F2	0.100	0.04949	F1	mg/Kg		49	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

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

Lab Sample ID: 890-8178-A-1-C MS

Matrix: Solid

Analysis Batch: 110543

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1 F2	0.100	0.05134	F1	mg/Kg		51	70 - 130
m,p-Xylenes	<0.00399	U F1 F2	0.200	0.09951	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00200	U F1 F2	0.100	0.05097	F1	mg/Kg		51	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-8178-A-1-D MSD

Matrix: Solid

Analysis Batch: 110543

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.07968	F2	mg/Kg		80	70 - 130	37	35
Toluene	<0.00200	U F1 F2	0.100	0.07790	F2	mg/Kg		78	70 - 130	45	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.08442	F2	mg/Kg		84	70 - 130	49	35
m,p-Xylenes	<0.00399	U F1 F2	0.200	0.1573	F2	mg/Kg		79	70 - 130	45	35
o-Xylene	<0.00200	U F1 F2	0.100	0.07796	F2	mg/Kg		78	70 - 130	42	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-110486/1-A

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:55	05/20/25 17:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:55	05/20/25 17:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:55	05/20/25 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	05/20/25 07:55	05/20/25 17:17	1
o-Terphenyl (Surr)	113		70 - 130	05/20/25 07:55	05/20/25 17:17	1

Lab Sample ID: LCS 880-110486/2-A

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1010		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	849.8		mg/Kg		85	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

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

Lab Sample ID: LCS 880-110486/2-A

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110486

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-110486/3-A

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110486

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	886.7		mg/Kg		89	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	755.0		mg/Kg		75	70 - 130	12	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Lab Sample ID: 890-8183-A-1-B MS

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	898.0		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	818.0		mg/Kg		79	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	118		70 - 130
o-Terphenyl (Surr)	120		70 - 130

Lab Sample ID: 890-8183-A-1-C MSD

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 110486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	903.4		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	816.9		mg/Kg		78	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	119		70 - 130
o-Terphenyl (Surr)	120		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110545/1-A

Matrix: Solid

Analysis Batch: 110549

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 22:23	1

Lab Sample ID: LCS 880-110545/2-A

Matrix: Solid

Analysis Batch: 110549

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.5		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-110545/3-A

Matrix: Solid

Analysis Batch: 110549

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.4		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-58313-A-1-F MS

Matrix: Solid

Analysis Batch: 110549

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	432	F1	252	739.5	F1	mg/Kg		122	90 - 110

Lab Sample ID: 880-58313-A-1-G MSD

Matrix: Solid

Analysis Batch: 110549

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	432	F1	252	738.6	F1	mg/Kg		122	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

GC VOA

Prep Batch: 110499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58332-1	Backfill Material	Total/NA	Solid	5035	
MB 880-110499/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110499/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110499/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8178-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8178-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 110543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58332-1	Backfill Material	Total/NA	Solid	8021B	110499
MB 880-110499/5-A	Method Blank	Total/NA	Solid	8021B	110499
LCS 880-110499/1-A	Lab Control Sample	Total/NA	Solid	8021B	110499
LCSD 880-110499/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110499
890-8178-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	110499
890-8178-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110499

Analysis Batch: 110623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58332-1	Backfill Material	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58332-1	Backfill Material	Total/NA	Solid	8015NM Prep	
MB 880-110486/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110486/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8183-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8183-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58332-1	Backfill Material	Total/NA	Solid	8015B NM	110486
MB 880-110486/1-A	Method Blank	Total/NA	Solid	8015B NM	110486
LCS 880-110486/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110486
LCSD 880-110486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110486
890-8183-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	110486
890-8183-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110486

Analysis Batch: 110615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58332-1	Backfill Material	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58332-1	Backfill Material	Soluble	Solid	DI Leach	
MB 880-110545/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110545/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110545/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

HPLC/IC (Continued)

Leach Batch: 110545 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58313-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-58313-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 110549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58332-1	Backfill Material	Soluble	Solid	300.0	110545
MB 880-110545/1-A	Method Blank	Soluble	Solid	300.0	110545
LCS 880-110545/2-A	Lab Control Sample	Soluble	Solid	300.0	110545
LCSD 880-110545/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110545
880-58313-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	110545
880-58313-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110545

Lab Chronicle

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

Client Sample ID: Backfill Material
Date Collected: 05/16/25 00:00
Date Received: 05/20/25 10:15

Lab Sample ID: 880-58332-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110499	05/20/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110623	05/20/25 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			110615	05/20/25 21:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110486	05/20/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110523	05/20/25 21:49	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110545	05/20/25 12:58	SA	EET MID
Soluble	Analysis	300.0		1			110549	05/21/25 00:09	SMC	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Black Pearl 1 Federal 1H

Job ID: 880-58332-1
SDG: 2698

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58332-1	Backfill Material	Solid	05/16/25 00:00	05/20/25 10:15

- 1
- 2
- 3
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- 7
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- 10
- 11
- 12
- 13
- 14

Chain of Custody



880-58332 Chain of Custody

Page 1 of 1

Work Order Comments

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



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

Deliverables: EDD ☐ ADAPT ☐ Other: _____

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

Project Name:		Black Pearl 1 Federal 1H		Turn Around		ANALYSIS REQUEST												Preservative Codes															
Project Number:		2698		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO DI Water: H ₂ O															
Project Location		Lea County, New Mexico		Due Date: 24 HR TAT														Cool: Cool MeOH: Me															
Sampler's Name:		CMM																HCL: HC HNO ₃ : HN															
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na															
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No														H ₃ PO ₄ : HP									
Received Intact:				Yes No		Thermometer ID:																		NaHSO ₄ : NABIS									
Cooler Custody Seals:				Yes No		Correction Factor:																		Na ₂ S ₂ O ₃ : NaSO ₃									
Sample Custody Seals:				Yes No		Temperature Reading:																		Zn Acetate+NaOH: Zn									
Total Containers:						Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC									
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments							
Backfill Material		5/16/2025				X				Comp		1		X		X		X															

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	5/21/15 10:51P		5/20/15 01:18

- 1
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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-58332-1

SDG Number: 2698

Login Number: 58332

List Source: Eurofins Midland

List Number: 1

Creator: Lee, Randell

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

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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

QUESTIONS

Action 472666

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472666
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2506541672
Incident Name	NAPP2506541672 LUSK DEEP UNIT A #25 @ 30-025-40193
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-40193] LUSK DEEP UNIT A #025H

Location of Release Source*Please answer all the questions in this group.*

Site Name	LUSK DEEP UNIT A #25
Date Release Discovered	03/05/2025
Surface Owner	State

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

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

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QUESTIONS, Page 2

Action 472666

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472666
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/10/2025
--	---

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QUESTIONS, Page 3

Action 472666

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472666
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 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
<i>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.</i>	
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)	151
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2008
GRO+DRO (EPA SW-846 Method 8015M)	1510
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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	05/09/2025
On what date will (or did) the final sampling or liner inspection occur	05/09/2025
On what date will (or was) the remediation complete(d)	05/27/2025
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	1390
What is the estimated volume (in cubic yards) that will be remediated	20

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 472666

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	472666
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: 06/10/2025
<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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QUESTIONS, Page 5

Action 472666

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472666
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 472666

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472666
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	459637
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2025
What was the (estimated) number of samples that were to be gathered	11
What was the sampling surface area in square feet	1390

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	1390
What was the total volume (cubic yards) remediated	20
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
<i>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>	
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: 06/10/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

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Action 472666

QUESTIONS (continued)

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	Action Number: 472666
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Action 472666

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472666
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	7/10/2025