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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party			OGRID	OGRID			
Contact Nam	ie			Contact	Contact Telephone			
Contact emai	i1			Inciden	Incident # (assigned by OCD)			
Contact mailing address								
					~			
			Location	of Release	Source			
Latitude				Longitud	e			
			(NAD 83 in dec	cimal degrees to 5 de	ecimal places)			
Site Name				Site Typ	e			
Date Release	Discovered			API# (if	applicable)			
Unit Letter	Section	Township	Range	Co	ounty			
Ont Letter	Section	Township	Runge		, unity	-		
						_		
Surface Owner	r: State	☐ Federal ☐ Tr	ribal Private (I	Name:)		
			Nature and	d Volume o	f Release			
Crude Oil		l(s) Released (Select al Volume Release		calculations or spec	or specific justification for the volumes provided below) Volume Recovered (bbls)			
Produced	Water	Volume Release	` ,		Volume Reco	• • •		
			ion of dissolved c	chloride in the	Yes N	,		
		produced water						
Condensa	te	Volume Release	d (bbls)		Volume Reco	overed (bbls)		
Natural Gas Volume Released (Mcf)					Volume Reco	overed (Mcf)		
Other (describe) Volume/Weight Released (provide units)			e units)	Volume/Weight Recovered (provide units)				
Cause of Rele	ease							

Received by OCD: 7/18/2024 11:36:16 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible	le party consider this a major release?
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To whom	? When and by what means (phone, email, etc)?
	Initial Resp	oonse
The responsible	party must undertake the following actions immediately unl	ess they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	as been secured to protect human health and the	environment.
Released materials ha	ave been contained via the use of berms or dike	s, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and ma	anaged appropriately.
has begun, please attach	a narrative of actions to date. If remedial effo	diation immediately after discovery of a release. If remediation rts have been successfully completed or if the release occurred se attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notificat ment. The acceptance of a C-141 report by the OCD gate and remediate contamination that pose a threat to	of my knowledge and understand that pursuant to OCD rules and ions and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In onsibility for compliance with any other federal, state, or local laws
Printed Name		Title:
Signature:	tangsparge	Date:
email:	T	elephone:
OCD Only		
Received by:	Da	ate:

					Spill Calcu	lation - On-Pad	Surface Pool Spill
Convert Irregular shape into a series of rectangles	Length (ft.)	Width	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Page 3 of 131 Total Estimated Volume of Spill (bbl.)
Rectangle A	4	4	0.1	16.00	0.02	0.00	0.02
Rectangle B				0.00	0.00	0.00	0.00
Rectangle C				0.00	0.00	0.00	0.00
Rectangle D				0.00	0.00	0.00	0.00
Rectangle E		Ť		0.00	0.00	0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00
Released to Imaging: 8/6/20	24 1:59:2	24 PM	Total S	urface Pool Volum	e Released, Release	to Soil/Caliche:	0.0237



SITE INFORMATION

Closure Report
Copperhead 31 Federal Com 003H
Eddy County, New Mexico
Incident ID: nAPP2411129556
Unit A Sec 30 T26S R29E
32.0198°, -104.0182°

Crude Oil Release

Point of Release: Equipment Failure Resulting in Flare Fire

Release Date: 04.18.2024

Volume Released: 0.0237 barrels of Crude Oil

Volume Recovered: 0 barrels of Crude Oil

CARMONA RESOURCES

S

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



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 B	PHOTOS
APPENDIX C	INITIAL AND FINAL C-141/NMOCD CORRESPONDENCE
APPENDIX D	SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E	LABORATORY REPORTS

TABLES

APPENDIX A



July 17, 2024

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

Re: Closure Report

Copperhead 31 Fed 3H Flare Fire (4.18.24)

Concho Operating, LLC

Incident ID: nAPP2411129556

Site Location: Unit A, S30, T26S, R29E

(Lat 32.0198°, Long -104.0182°) Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Copperhead 31 Fed 3H Flare Fire (4.18.24). The site is located at 32.0198°, -104.0182° within Unit A, S30, T26S, and R29E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on April 18, 2024, due to equipment failure, resulting in a flare fire. It resulted in approximately zero point zero two three seven (0.0237) barrels of crude oil being released and zero (0) barrels of crude oil being recovered. The impacted area occurred on the pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known groundwater determination bore is within a 0.50-mile radius of the location. The closest groundwater determination bore is approximately 0.36 miles Southwest of the site in S30, T26S, R29E and was drilled in 2022. The bore was drilled to a reported depth of 55' feet below the ground surface (ft bgs) April 25, 2022. On April 29, 2022, the bore was gauged with no detection of groundwater or moisture. A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

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



• Chloride: 600 mg/kg.

4.0 Site Assessment Activities

On June 3, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) vertical sample point (S-1) and five (5) horizontal sample points (H-1 through H-5) were advanced to depths ranging from the surface to 1' bgs inside the release area to assess the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

See Table 1 for the analytical results.

5.0 Remediation Activities

On June 25, 2024, Carmona Resources was on site to conduct excavation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via the NMOCD web portal, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of one (1) confirmation floor sample (CS-1) 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. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. All collected samples were analyzed for TPH 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 E. Refer to Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

Before the excavation was backfilled, a composite sample of the backfill material was collected to ensure the material was clean per NMOCD standards. The pit sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 5 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Mike Carmona

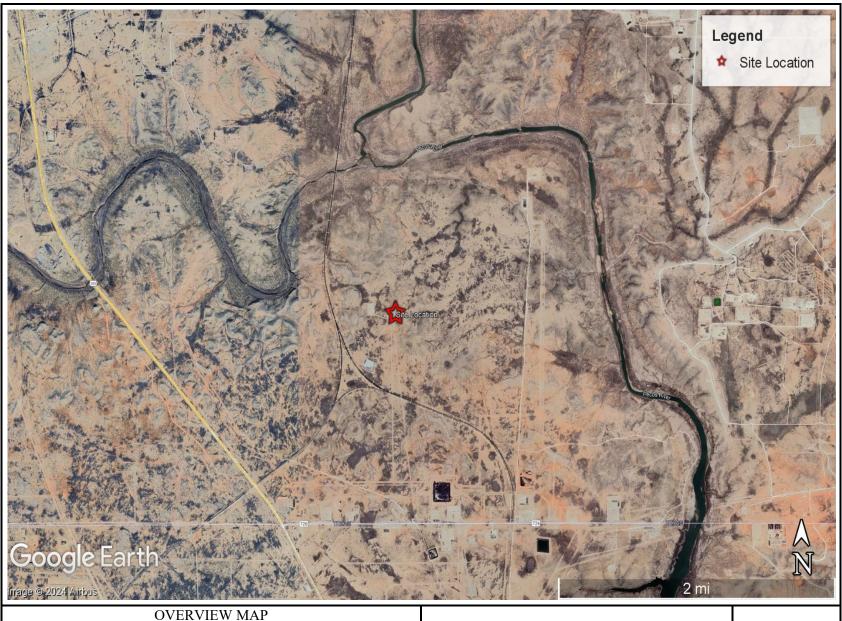
Environmental Manager

Conner Moehring Sr. Project Manager

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FIGURES

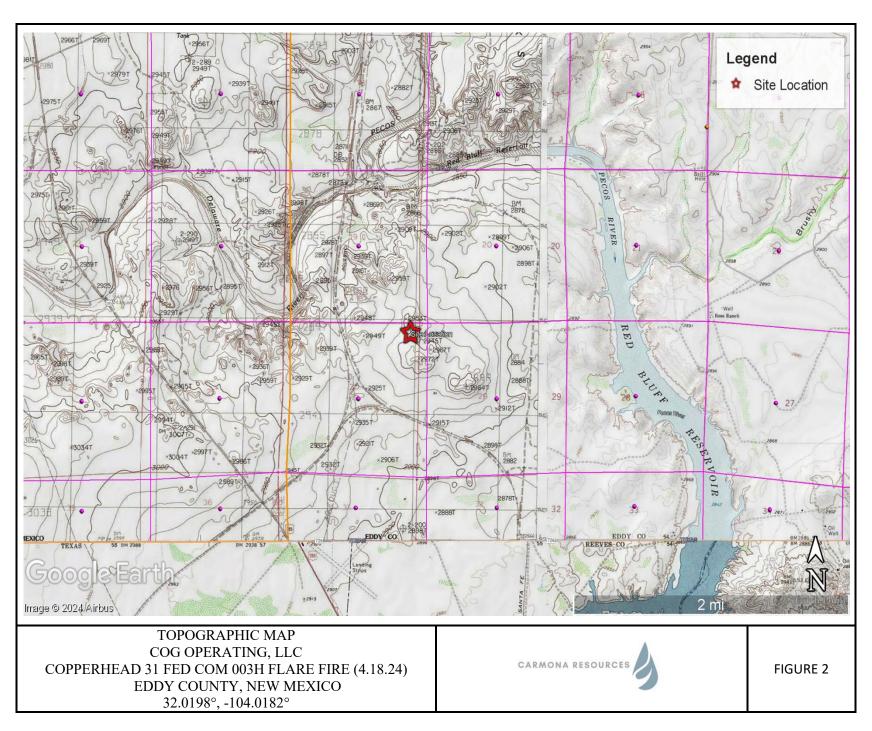
CARMONA RESOURCES

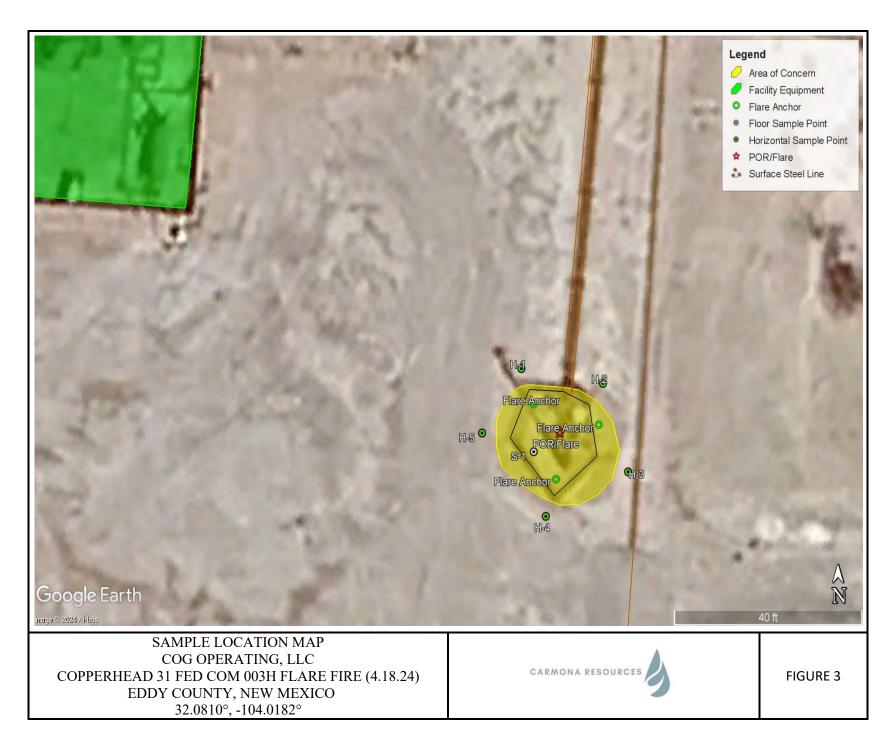


COG OPERATING, LLC
COPPERHEAD 31 FED COM 003H FLARE FIRE (4.18.24)
EDDY COUNTY, NEW MEXICO
32.0198°, -104.0182°



FIGURE 1







APPENDIX A



Table 1 **COG Operating** Copperhead 31 Fed 3H Flare Fire (04.18.24) **Eddy County, New Mexico**

0 1 10		D (1 (5))		ТРН	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-1	6/3/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	361
H-1	6/3/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	307
H-2	6/3/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00398	903
11-2	6/25/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	45.2
H-3	6/3/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	104.0
H-4	6/3/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	116
H-5	6/3/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	375.0
Regulato	ry Criteria ^A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet

(S) Sample Point

(H) Horizontal Sample

Removed

Table 2 **COG Operating** Copperhead 31 Fed 3H Flare Fire (04.18.24) **Eddy County, New Mexico**

0 1 15	2.	D 4 (6)		TPH	l (mg/kg)		Benzene		Ethlybenzene	enzene Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	6/25/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	34.1
SW-1	6/25/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	27.7
SW-2	6/25/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	7.46
SW-3	6/25/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	34.0
SW-4	6/25/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	31.0
TPLT Astronaut Pit	5/8/2024	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulato	ry 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 Floor Sample

(SW) Confirmation Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

COG Operating Copperhead 31 Federal Com 003H

Photograph No. 1

Facility: Copperhead 31 Federal Com 003H

(4.18.24)

County: Eddy County, New Mexico

Description:

View Southwest, area of H-2.



Photograph No. 2

Facility: Copperhead 31 Federal Com 003H

(4.18.24)

County: Eddy County, New Mexico

Description:

View South, area of SW-1.



Photograph No. 3

Facility: Copperhead 31 Federal Com 003H

(4.18.24)

County: Eddy County, New Mexico

Description: View South.





APPENDIX C

CARMONA RESOURCES

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

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

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

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

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

QUESTIONS

Action 335557

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	335557
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source					
Please answer all the questions in this group.					
Site Name Copperhead 31 Federal Com #3H					
Date Release Discovered	04/18/2024				
Surface Owner	Federal				

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

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

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

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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 335557

QUESTIONS	(continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	335557
	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.

District I
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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 335557

ACKNOWLEDGMENTS

Operator:	OGRID:	
COG OPERATING LLC	229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	335557	
	Action Type:	
	[NOTIFY] Notification Of Release (NOR)	

ACKNOWLEDGMENTS

~	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
V	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.
V	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.
V	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.
V	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.
V	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 335557

CONDITIONS

Operator:	OGRID:		
COG OPERATING LLC	229137		
600 W Illinois Ave	Action Number:		
Midland, TX 79701	335557		
	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.	4/20/2024

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party		OGRID	OGRID			
Contact Name			Contact T	Contact Telephone		
Contact email			Incident #	Incident # (assigned by OCD)		
ng address			1			
		Location	of Release S	ource		
			Longitude			
		(NAD 83 in de	cimal degrees to 5 deci	mal places)		
			Site Type			
Discovered			API# (if ap	plicable)		
Section	Township	Range	Cou	nty		
		Nature and	d Volume of)	
Materia			carculations of specific	Volume Recove		
Water	Volume Release	ed (bbls)		Volume Recovered (bbls)		
		chloride in the	☐ Yes ☐ No			
e				Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units		e units)	Volume/Weight Recovered (provide units)			
Cause of Release						
	g address Discovered Section State Material Vater s cribe)	Section Township State Federal Township Material(s) Released (Select a Volume Release Vater Volume Release Is the concentrate produced water volume Release	Location	Location of Release S	Incident # (assigned by OCD) Incident # (assigned by OCD) Incident # (assigned by OCD) Longitude (NAD 83 in decimal degrees to 5 decimal places) Site Type Discovered API# (if applicable) Section Township Range County State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the very Volume Released (bbls) Volume Released (bbls) Volume Recovery Volume Released (bbls) Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Volume Released (bbls) Volume Recovery Volume Released (bbls) Volume Released (bbls) Volume Released (bbls) Volume Recovery Volume Released (bbls) Volume Released (bbls)	

Received by OCD: 7/18/2024 11:36:16 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major If YES, for what reason(s) does the responsible party consider this a major release?					
release as defined by 19.15.29.7(A) NMAC?					
☐ Yes ☐ No					
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?					
Initial Response					
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury					
☐ The source of the release has been stopped.					
The impacted area has been secured to protect human health and the environment.					
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.					
All free liquids and recoverable materials have been removed and managed appropriately.					
If all the actions described above have <u>not</u> been undertaken, explain why:					
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediately					
has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occur within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and	red				
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 endange	er				
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 endange 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	er /e				
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					Spill Calcu	lation - On-Pad	Surface Pool Spill
Convert Irregular shape into a series of rectangles	Length (ft.)	Width	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	4	4	0.1	16.00	0.02	0.00	0.02
Rectangle B				0.00	0.00	0.00	0.00
Rectangle C				0.00	0.00	0.00	0.00
Rectangle D				0.00	0.00	0.00	0.00
Rectangle E		Ť		0.00	0.00	0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00
Released to Imaging: 8/6/20	24 1:59:2	24 PM	Total Si	urface Pool Volum	e Released, Release	to Soil/Caliche:	0.0237

Received by OCD: 7/18/2024 11:36:16 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

	Page 26 of 131
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

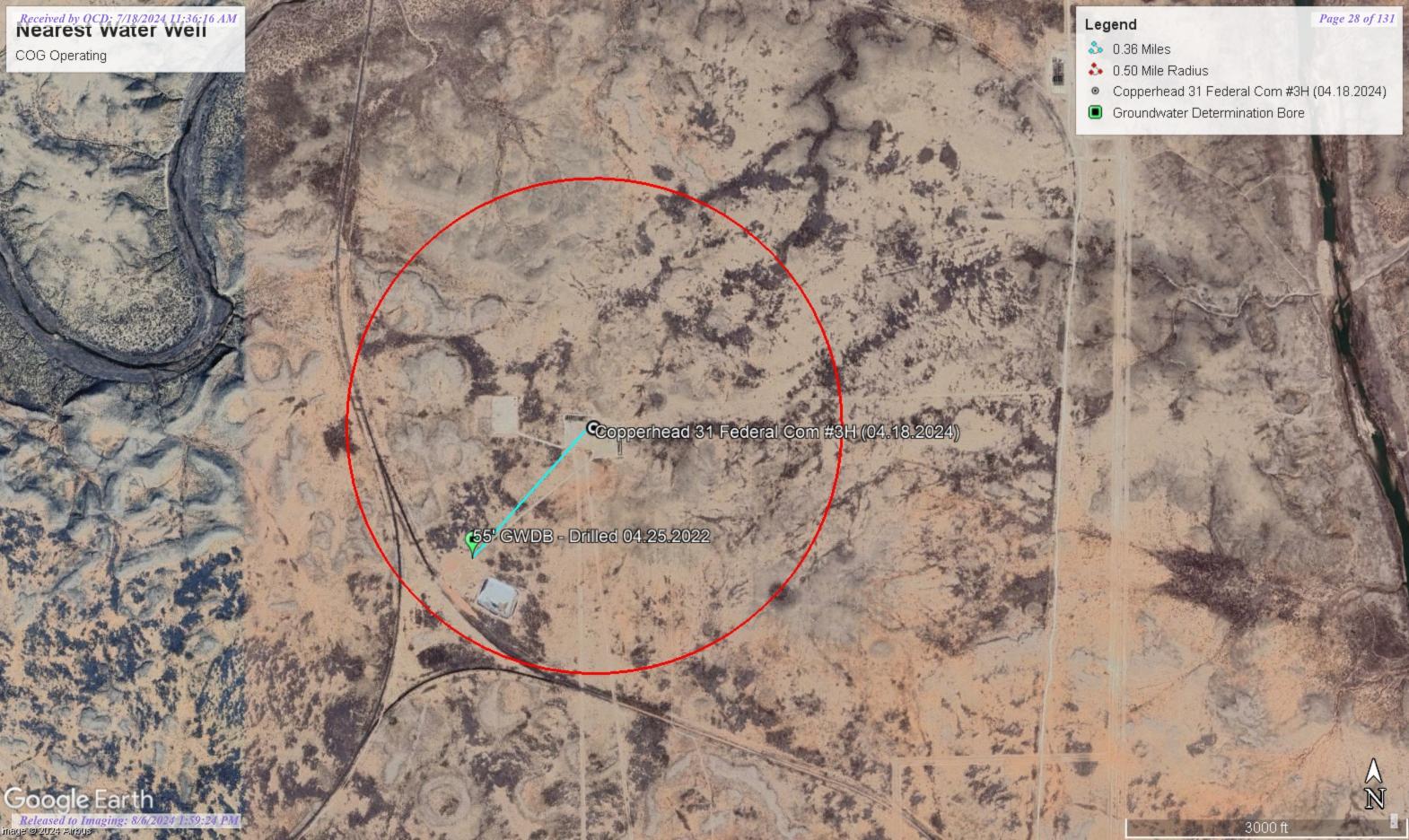
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

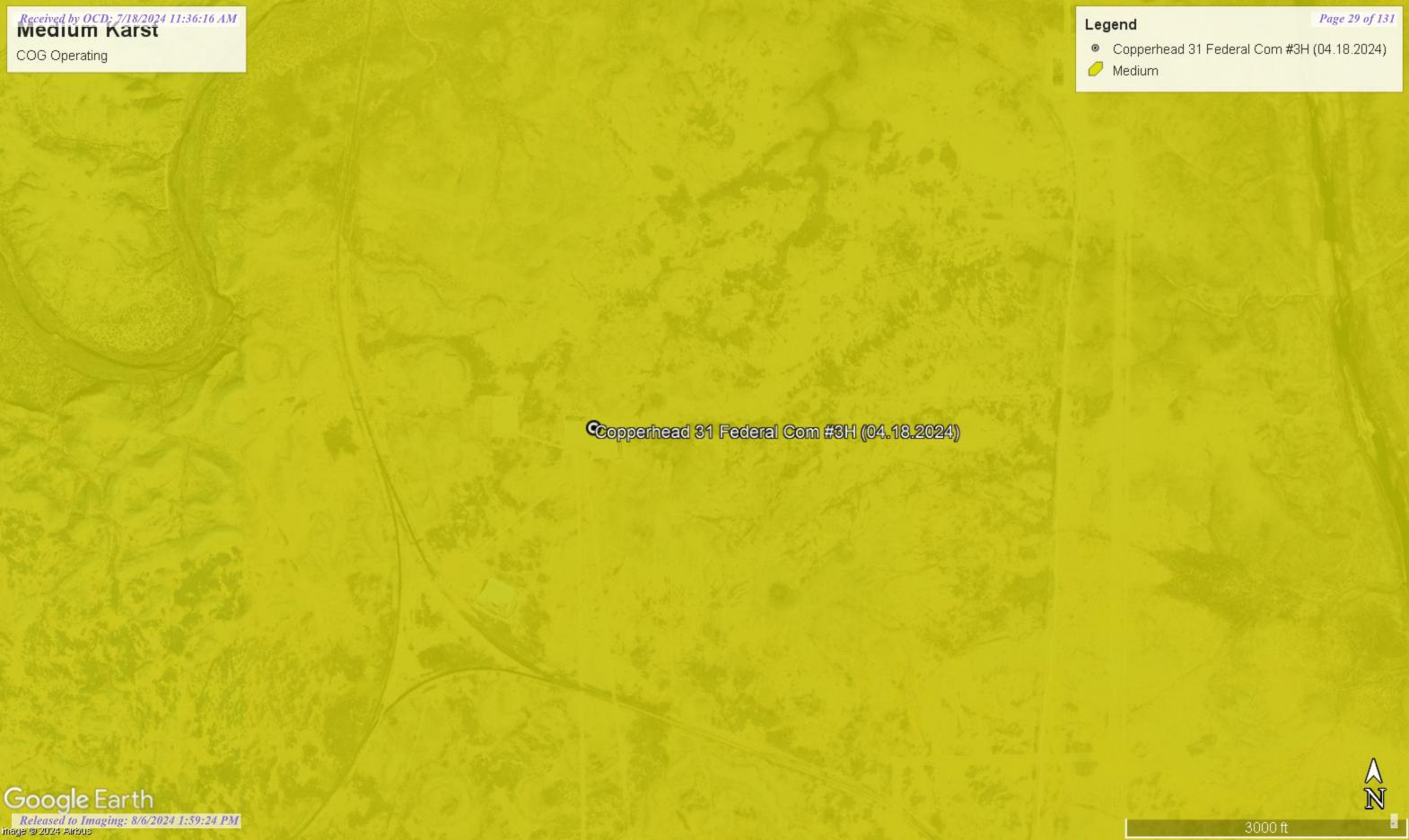
Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
☐ Description of remediation activities					
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in				
Printed Name:	Title:				
Signature: Jacqui Harris	Date:				
email:	Telephone:				
OCD Only					
Received by:	Date:				
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.				
Closure Approved by:	Date:				
Printed Name:	Title:				

APPENDIX D

CARMONA RESOURCES







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

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

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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD

Sub-QQQ

Code basin County 64 16 4 Sec Tws Rng

Distance 3987

Depth Depth Water **Well Water Column**

POD Number C 04630 POD1

3 4 3 22 26S 29E

596792 3543275

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

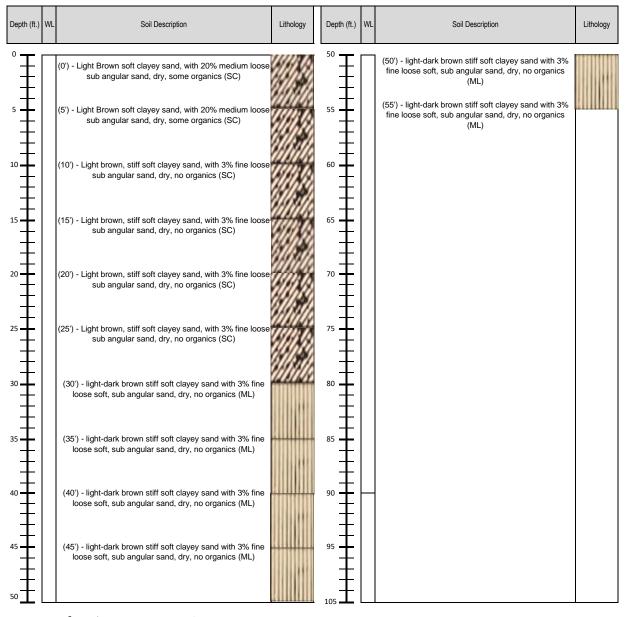
UTMNAD83 Radius Search (in meters):

Easting (X): 592809.53 Northing (Y): 3543071.14 Radius: 4000

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



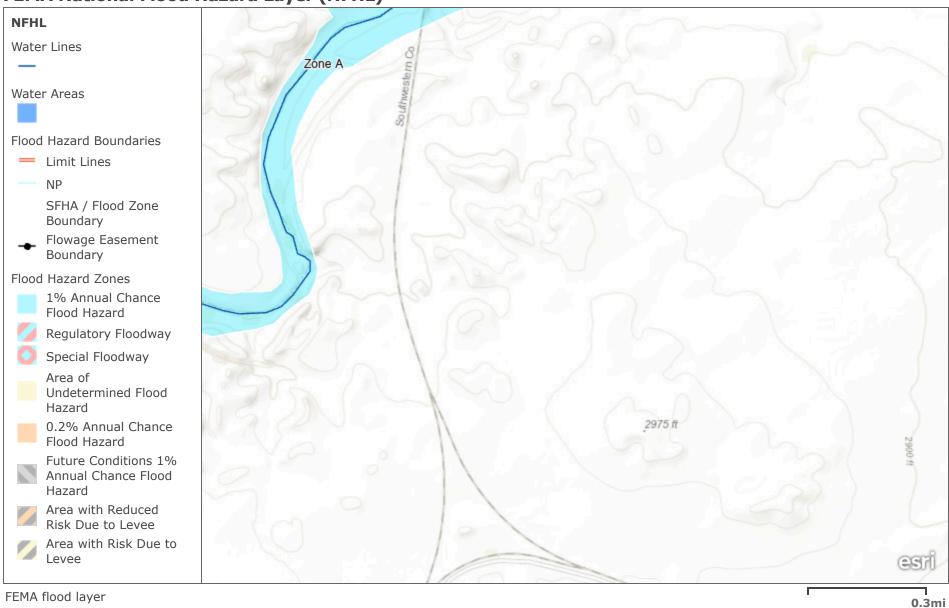
Project Name : Date: COG - Copperhead Fee A 3H (02.08.22) Monday, April 25, 2022 Project No. : Sampler : Lane Scarborough **Eddy County, New Mexico** Location: Driller: Coordinates : 32.016146, -104.021411 Scarborough Drilling Method: Elevation: 2,935' Air Rotary



Comments: Boring terminated at 55' at 10:00 AM Central Time with no presence of groundwater or moisture.

Well gauged on 4/29/22 at 11:00 AM Central Time with no detection of groundwater or moisture

FEMA National Flood Hazard Layer (NFHL)



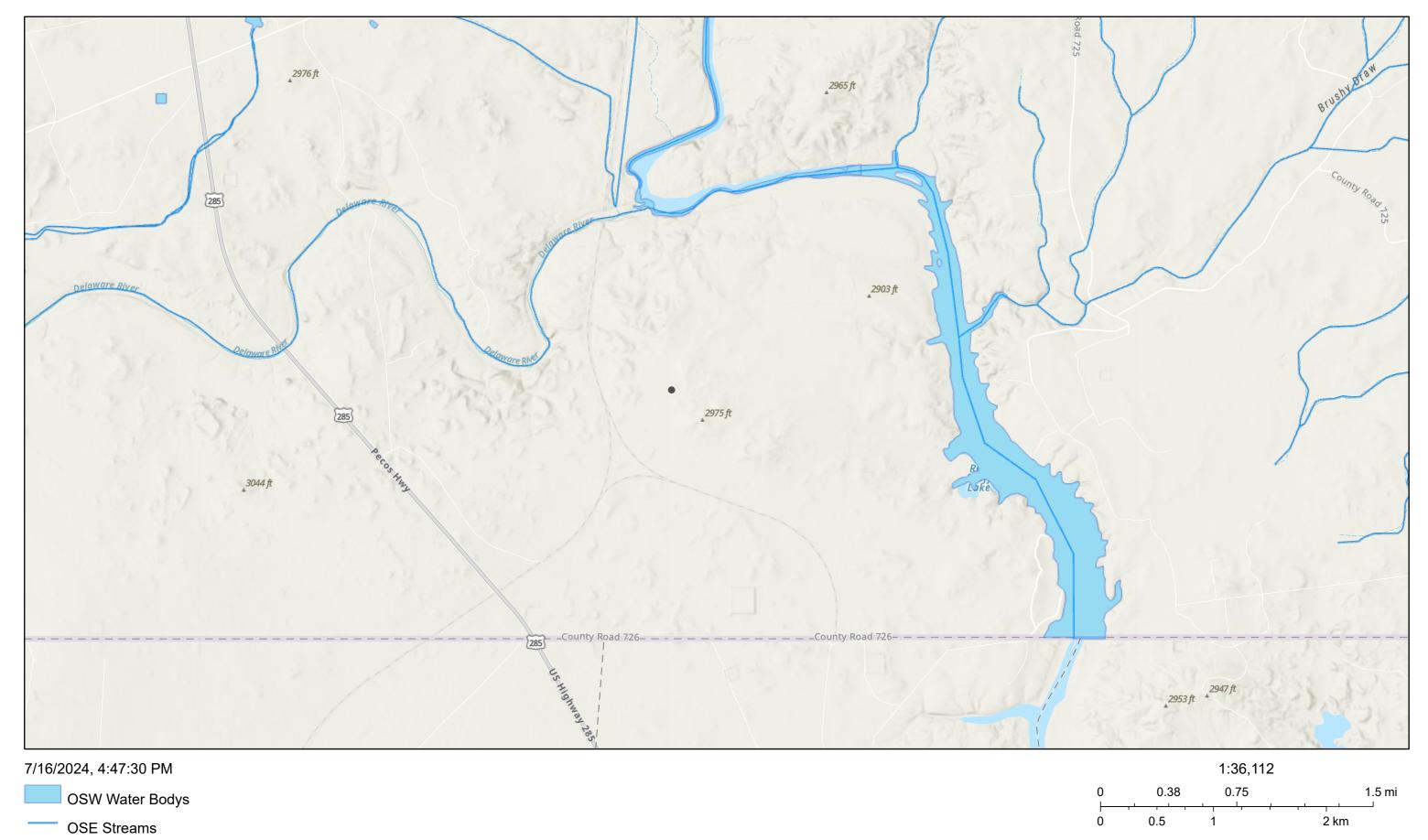
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)



Maxar | Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Copperhead 31 Federal Com #3H (04.18.2024)



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

APPENDIX E

CARMONA RESOURCES

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500

Midland, Texas 79701

Generated 6/7/2024 3:38:45 PM

JOB DESCRIPTION

Copperhead 31 Fed 3H Flare Fire (4.18.24) Eddy County, New Mexico

JOB NUMBER

880-44253-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 6/7/2024 3:38:45 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 2

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Client: Carmona Resources Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) Laboratory Job ID: 880-44253-1 SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

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4

6

8

10

10

13

Definitions/Glossary

Job ID: 880-44253-1 Client: Carmona Resources Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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 Job ID: 880-44253-1

Project: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Eurofins Midland Job ID: 880-44253-1

Job Narrative 880-44253-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- 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 6/4/2024 12:00 PM. 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 5.1°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-44253-1).

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 preparation batch 880-82244 and analytical batch 880-82547 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-82244/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD NM: The method blank for preparation batch 880-82244 and analytical batch 880-82547 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

SDG: Eddy County, New Mexico

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

Date Collected: 06/03/24 00:00 Date Received: 06/04/24 12:00

Lab Sample ID: 880-44253-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
Toluene	< 0.00199	U	0.00199		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/04/24 12:40	06/04/24 15:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/04/24 12:40	06/04/24 15:54	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/04/24 15:54	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL_	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/24 15:20	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:20	1
(GRO)-C6-C10	40.0		40.0				00/00/04 40 44	00/00/04 45 00	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				06/03/24 19:14	06/06/24 15:20	1
o-Terphenyl	86		70 - 130				06/03/24 19:14	06/06/24 15:20	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		49.8		mg/Kg			06/06/24 14:28	10

Surrogate Summary

Client: Carmona Resources

Job ID: 880-44253-1

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-44253-1	S-1 (0-1')	97	86	
890-6733-A-1-C MS	Matrix Spike	86	85	
890-6733-A-1-D MSD	Matrix Spike Duplicate	88	86	
LCS 880-82244/2-A	Lab Control Sample	126	133 S1+	
LCSD 880-82244/3-A	Lab Control Sample Dup	107	113	
MB 880-82244/1-A	Method Blank	109	112	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-82265/5-A

Lab Sample ID: LCS 880-82265/1-A

Matrix: Solid

Analysis Batch: 82256

Matrix: Solid Analysis Batch: 82256 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 82265

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	104	70 - 130	06/04/24 12:07	06/04/24 14:10
1,4-Difluorobenzene (Surr)	92	70 - 130	06/04/24 12:07	06/04/24 14:10

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82265

Prep Type: Total/NA

Prep Batch: 82265

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1010 mg/Kg 101 70 - 130 Toluene 0.100 0.09133 mg/Kg 91 70 - 130 0.100 Ethylbenzene 0.09576 mg/Kg 96 70 - 130 0.200 0.1962 98 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09784 o-Xylene mg/Kg 98 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Analysis Batch: 82256

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1146 mg/Kg 115 70 - 130 13 35 Toluene 0.100 0.1034 mg/Kg 103 70 - 130 12 35 Ethylbenzene 0.100 0.1085 mg/Kg 109 70 - 130 12 35 0.200 m-Xylene & p-Xylene 0.2218 mg/Kg 111 70 - 130 12 35 0.100 0.1104 o-Xylene mg/Kg 110 70 - 130 35

LCSD LCSD

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

Lab Sample ID: 880-44241-A-1-A MS

Lab Sample ID: LCSD 880-82265/2-A

Matrix: Solid

Analysis Batch: 82256

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

Prep Batch: 82265

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.1003		mg/Kg	_	101	70 - 130	
Toluene	< 0.00199	U	0.0996	0.09035		mg/Kg		91	70 - 130	

Eurofins Midland

Page 8 of 19

Dil Fac

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

SDG: Eddy County, New Mexico

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 82265

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

Lab Sample ID: 880-44241-A-1-A MS

Matrix: Solid

Analysis Batch: 82256

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0996	0.09423		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1936		mg/Kg		97	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.09708		mg/Kg		97	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 82265

Analysis Batch: 82256

Matrix: Solid

Lab Sample ID: 880-44241-A-1-B MSD

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.1000		mg/Kg		99	70 - 130	0	35
Toluene	< 0.00199	U	0.101	0.08801		mg/Kg		87	70 - 130	3	35
Ethylbenzene	< 0.00199	U	0.101	0.08931		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1818		mg/Kg		90	70 - 130	6	35
o-Xylene	<0.00199	U	0.101	0.09097		mg/Kg		90	70 - 130	6	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-82244/1-A

Matrix: Solid

Analysis Batch: 82547

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

Prep Batch: 82244

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	06/03/24 19:14	06/06/24 10:28	1
o-Terphenyl	112		70 - 130	06/03/24 19:14	06/06/24 10:28	1

Lab Sample ID: LCS 880-82244/2-A

Matrix: Solid

Analysis Batch: 82547

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

Prep Batch: 82244

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1270		mg/Kg		127	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1232		mg/Kg		123	70 - 130	
C10-C28)								

Limits

70 - 130

70 - 130

Client: Carmona Resources

Job ID: 880-44253-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) SDG: Eddy County, New Mexico

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

LCS LCS

133 S1+

%Recovery Qualifier

126

Lab Sample ID: LCS 880-82244/2-A **Matrix: Solid**

Analysis Batch: 82547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82244

Lab Sample ID: LCSD 880-82244/3-A

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 82547

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82244

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1068 107 70 - 13017 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1022 102 mg/Kg 70 - 13019 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-6733-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 82547

Prep Type: Total/NA

Prep Batch: 82244

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 703.8 mg/Kg 71 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 997 695.4 F1 mg/Kg 67 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 86 70 - 130 o-Terphenyl 85

Lab Sample ID: 890-6733-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 82547

Prep Type: Total/NA Prep Batch: 82244

RPD

Sample Sample MSD MSD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.9 U 997 753.8 76 20 Gasoline Range Organics mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 997 729.0 mg/Kg 71 70 - 130 20 C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	88	70 - 130
o-Terphenyl	86	70 - 130

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

SDG: Eddy County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-82330/1-A

Matrix: Solid

Analysis Batch: 82407

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 06/06/24 13:57

Lab Sample ID: LCS 880-82330/2-A

Matrix: Solid

Analysis Batch: 82407

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 258.3 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-82330/3-A

Matrix: Solid

Analysis Batch: 82407

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 258.7 mg/Kg 103 90 - 110

Lab Sample ID: 880-44252-A-1-D MS

Matrix: Solid

Analysis Batch: 82407

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 93.4 248 353.3 105 90 - 110 mg/Kg

Lab Sample ID: 880-44252-A-1-E MSD

Matrix: Solid

Analysis Batch: 82407

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 248 Chloride 93.4 354.3 mg/Kg 105 90 - 110 20

QC Association Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1 SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 82256

Lab Sample ID 880-44253-1	Client Sample ID S-1 (0-1')	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 82265
MB 880-82265/5-A	Method Blank	Total/NA	Solid	8021B	82265
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	8021B	82265
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	82265
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	82265
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	82265

Prep Batch: 82265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	5035	
MB 880-82265/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 82386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 82244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 82547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	8015B NM	82244
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015B NM	82244
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	82244
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	82244
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	82244
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	82244

Analysis Batch: 82676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 82330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Soluble	Solid	DI Leach	
MB 880-82330/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 82330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44252-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 82407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Soluble	Solid	300.0	82330
MB 880-82330/1-A	Method Blank	Soluble	Solid	300.0	82330
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	300.0	82330
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	82330
880-44252-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	82330
880-44252-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	82330

Lab Chronicle

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

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

Date Received: 06/04/24 12:00

Date Collected: 06/03/24 00:00

Lab Sample ID: 880-44253-1

Matrix: Solid

Job ID: 880-44253-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	82265	06/04/24 12:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 15:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82386	06/04/24 15:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			82676	06/06/24 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 15:20	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	82407	06/06/24 14:28	CH	EET MID

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELA)	T104704400-23-26	06-30-24	
,	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

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

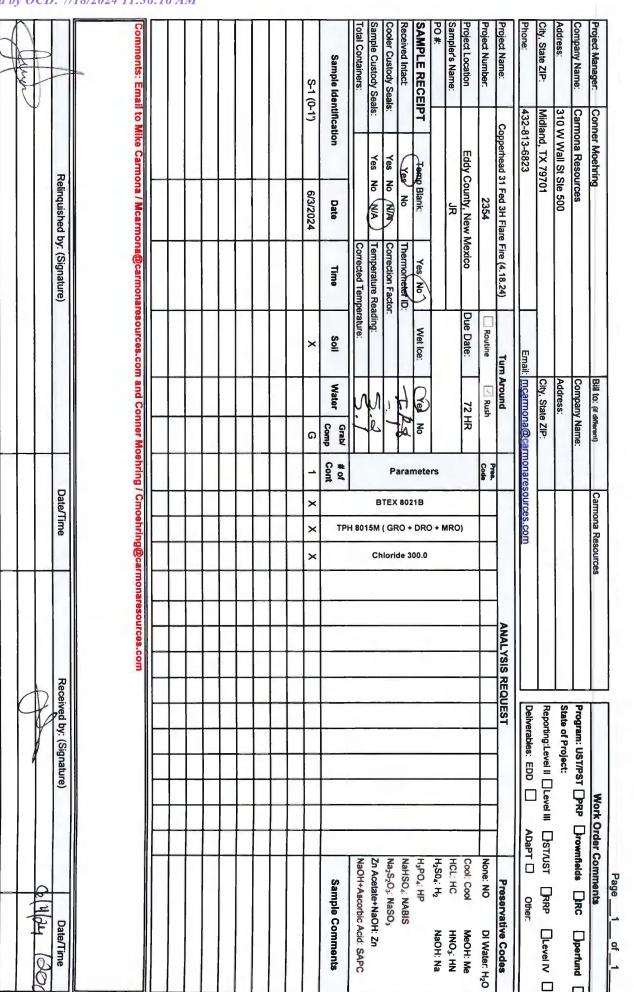
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44253-1	S-1 (0-1')	Solid	06/03/24 00:00	06/04/24 12:00

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880-44253 Chain of Custody

Page 18 of 19

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6/7/2024

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-44253-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

List Number: 1

Login Number: 44253

Creator: Vasquez, Julisa

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	

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/7/2024 3:39:19 PM

JOB DESCRIPTION

Copperhead 31 Fed 3H Flare Fire (4.18.24) Eddy County, New Mexico

JOB NUMBER

880-44254-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 6/7/2024 3:39:19 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 1

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Client: Carmona Resources Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) Laboratory Job ID: 880-44254-1 SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receint Checklists	23

2

3

4

6

8

40

11

13

Definitions/Glossary

Client: Carmona Resources Job ID: 880-44254-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

Qualifier

Qualifier	Qualifier Description
11	Indicates the analyte was analyzed for but not a

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) Method Detection Limit

MDL Minimum Level (Dioxin) ML Most Probable Number MPN 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

Presumptive **PRES** 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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-44254-1

Project: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1 Eurofins Midland

Job Narrative 880-44254-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 6/4/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-44254-1), H-2 (0-0.5') (880-44254-2), H-3 (0-0.5') (880-44254-3), H-4 (0-0.5') (880-44254-4) and H-5 (0-0.5') (880-44254-5).

GC VOA

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 preparation batch 880-82244 and analytical batch 880-82547 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: H-1 (0-0.5') (880-44254-1), H-2 (0-0.5') (880-44254-2), H-3 (0-0.5') (880-44254-3), H-4 (0-0.5') (880-44254-4) and (LCS 880-82244/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-82244 and analytical batch 880-82547 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Eurofins Midland

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Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-44254-1

Matrix: Solid

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

Date Collected: 06/03/24 00:00 Date Received: 06/04/24 12:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
Toluene	< 0.00199	U	0.00199		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/04/24 13:00	06/04/24 19:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/04/24 13:00	06/04/24 19:11	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/04/24 19:11	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/06/24 15:38	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	<49.7	11	49.7		mg/Kg		06/03/24 19:14	06/06/24 15:38	1
Gasoline Range Organics (GRO)-C6-C10	~49. 1	U	43.1						
(GRO)-C6-C10 Diesel Range Organics (Over	<49.7		49.7		mg/Kg		06/03/24 19:14	06/06/24 15:38	,
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U			mg/Kg mg/Kg		06/03/24 19:14 06/03/24 19:14	06/06/24 15:38 06/06/24 15:38	
5 5	<49.7	U	49.7						1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.7 <49.7	U	49.7 49.7				06/03/24 19:14	06/06/24 15:38	1

Client Sample ID: H-2 (0-0.5') Lab Sample ID: 880-44254-2 Date Collected: 06/03/24 00:00 **Matrix: Solid**

RL

25.2

MDL Unit

mg/Kg

D

Prepared

Analyzed

06/06/24 14:33

Dil Fac

Date Received: 06/04/24 12:00

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

307

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/04/24 13:00	06/04/24 19:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/04/24 13:00	06/04/24 19:31	1

Client Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

903

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

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

Date Collected: 06/03/24 00:00 Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/04/24 19:31	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/24 15:55	1
	-100	11	40.0		no ar/1/ ar		06/02/24 10:14	06/06/04 45:55	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:55	1
(GRO)-C6-C10									1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8 <49.8		49.8 49.8		mg/Kg		06/03/24 19:14 06/03/24 19:14	06/06/24 15:55 06/06/24 15:55	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:55	1
(GRO)-C6-C10 Diesel Range Organics (Over		U							1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:55	1 1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.8 <49.8	U	49.8		mg/Kg		06/03/24 19:14 06/03/24 19:14	06/06/24 15:55 06/06/24 15:55	1 1 1 1 1 Dil Fac

Client Sample ID: H-3 (0-0.5') Lab Sample ID: 880-44254-3 Date Collected: 06/03/24 00:00

RL

50.2

MDL Unit

mg/Kg

D

Prepared

Date Received: 06/04/24 12:00

Analyte

Chloride

Matrix: Solid

Analyzed

06/06/24 14:38

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/04/24 13:00	06/04/24 19:52	
Toluene	<0.00198	U	0.00198		mg/Kg		06/04/24 13:00	06/04/24 19:52	,
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/04/24 13:00	06/04/24 19:52	,
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/04/24 13:00	06/04/24 19:52	
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/04/24 13:00	06/04/24 19:52	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/04/24 13:00	06/04/24 19:52	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130				06/04/24 13:00	06/04/24 19:52	1
	97		70 - 130				06/04/24 13:00	06/04/24 19:52	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	70 - 730 RL	MDL	Unit	D	Prepared	Analyzed	
·		culation	70 - 130				00/04/24 13.00	00/04/24 19.32	,
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00397	Qualifier U	RL 0.00397	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00397 esel Range Organ	Qualifier U	RL 0.00397	MDL MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00397 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00397		mg/Kg		Prepared	Analyzed 06/04/24 19:52	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00397 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00397 GC) RL 49.9		mg/Kg		Prepared	Analyzed 06/04/24 19:52 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00397 esel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00397 GC) RL 49.9	MDL	mg/Kg		Prepared	Analyzed 06/04/24 19:52 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00397 esel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00397 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 06/04/24 19:52 Analyzed 06/06/24 16:12	Dil Fac

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

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

Date Collected: 06/03/24 00:00 Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-3

Matrix: Solid

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				06/03/24 19:14	06/06/24 16:12	1
o-Terphenyl	63	S1-	70 - 130				06/03/24 19:14	06/06/24 16:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Dil Fac Analyte Unit D Prepared Analyzed 4.97 06/06/24 14:42 104 Chloride mg/Kg

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

Date Collected: 06/03/24 00:00

Date Received: 06/04/24 12:00

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Lab Sample ID: 880-44254-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <0.00201 U 0.00201 06/04/24 13:00 06/04/24 20:12 mg/Kg <0.00201 U 0.00201 06/04/24 13:00 06/04/24 20:12 mg/Kg <0.00201 U 0.00201 06/04/24 13:00 06/04/24 20:12 mg/Kg 06/04/24 13:00 06/04/24 20:12 <0.00402 U 0.00402 mg/Kg <0.00201 U 0.00201 mg/Kg 06/04/24 13:00 06/04/24 20:12 <0.00402 U 0.00402 mg/Kg 06/04/24 13:00 06/04/24 20:12

%Recovery Limits Dil Fac Surrogate Qualifier Prepared Analyzed 70 - 130 06/04/24 13:00 4-Bromofluorobenzene (Surr) 108 06/04/24 20:12 1,4-Difluorobenzene (Surr) 97 70 - 130 06/04/24 13:00 06/04/24 20:12

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Total BTEX <0.00402 U 0.00402 mg/Kg 06/04/24 20:12

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier MDL Dil Fac RL Unit D Prepared Analyzed Total TPH <49.9 Ū 49.9 06/06/24 16:29 mg/Kg

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

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <49.9 U 49.9 06/03/24 19:14 06/06/24 16:29 mg/Kg (GRO)-C6-C10 06/03/24 19:14 06/06/24 16:29 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg Oil Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 06/03/24 19:14 06/06/24 16:29

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac S1-1-Chlorooctane 66 70 - 130 06/03/24 19:14 06/06/24 16:29 70 - 130 64 S1-06/03/24 19:14 06/06/24 16:29 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Dil Fac RL Unit Prepared Analyzed Chloride 5.02 06/06/24 14:56 116 mg/Kg

Client Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

375

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-44254-5

Matrix: Solid

Client Sample ID: H-5 (0-0.	5')
Data Callastad, 00/02/24 00:00	

Date Collected: 06/03/24 00:00 Date Received: 06/04/24 12:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:32	
Toluene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/04/24 13:00	06/04/24 20:32	
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:32	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/04/24 13:00	06/04/24 20:32	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130				06/04/24 13:00	06/04/24 20:32	
1,4-Difluorobenzene (Surr)	95		70 - 130				06/04/24 13:00	06/04/24 20:32	:
T-4-1 DTCV									
Total BTEX Method: SW846 8015 NM - Diese	•	ics (DRO) (•	MDI	mg/Kg		Posses and	06/04/24 20:32	Dil 5
Method: SW846 8015 NM - Diese Analyte	Range Organ	ics (DRO) (Qualifier	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Range Organ Result <49.8 sel Range Organ	ics (DRO) (Qualifier	GC) RL 49.8			<u>D</u>	Prepared Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Range Organ Result <49.8 sel Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier	GC) RL 49.8		Unit mg/Kg		<u> </u>	Analyzed 06/06/24 16:47	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result <49.8 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier	GC) RL 49.8 (GC) RL		Unit mg/Kg		Prepared	Analyzed 06/06/24 16:47 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result <49.8 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL		Unit mg/Kg		Prepared	Analyzed 06/06/24 16:47 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 49.8 Seel Range Organ Result Result 49.8 49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 06/03/24 19:14	Analyzed 06/06/24 16:47 Analyzed 06/06/24 16:47	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 49.8 Seel Range Organ Result 49.8 49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/03/24 19:14 06/03/24 19:14	Analyzed 06/06/24 16:47 Analyzed 06/06/24 16:47 06/06/24 16:47	Dil Fac
	Result 49.8 Seel Range Organ Result 49.8 49.8 449.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/03/24 19:14 06/03/24 19:14	Analyzed 06/06/24 16:47 Analyzed 06/06/24 16:47 06/06/24 16:47	Dil Fac

RL

49.8

MDL Unit

mg/Kg

Prepared

Analyzed

06/06/24 15:01

Dil Fac

10

Analyte

Chloride

Surrogate Summary

Client: Carmona Resources

Job ID: 880-44254-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-44241-A-1-A MS	Matrix Spike	104	101	
880-44241-A-1-B MSD	Matrix Spike Duplicate	105	102	
880-44254-1	H-1 (0-0.5')	106	98	
880-44254-2	H-2 (0-0.5')	107	97	
880-44254-3	H-3 (0-0.5')	106	97	
880-44254-4	H-4 (0-0.5')	108	97	
880-44254-5	H-5 (0-0.5')	105	95	
LCS 880-82265/1-A	Lab Control Sample	104	101	
LCSD 880-82265/2-A	Lab Control Sample Dup	103	101	
MB 880-82265/5-A	Method Blank	104	92	

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)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-44254-1	H-1 (0-0.5')	72	65 S1-	
880-44254-2	H-2 (0-0.5')	72	68 S1-	
880-44254-3	H-3 (0-0.5')	65 S1-	63 S1-	
880-44254-4	H-4 (0-0.5')	66 S1-	64 S1-	
880-44254-5	H-5 (0-0.5')	71	70	
890-6733-A-1-C MS	Matrix Spike	86	85	
890-6733-A-1-D MSD	Matrix Spike Duplicate	88	86	
LCS 880-82244/2-A	Lab Control Sample	126	133 S1+	
LCSD 880-82244/3-A	Lab Control Sample Dup	107	113	
MB 880-82244/1-A	Method Blank	109	112	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-82265/5-A

Lab Sample ID: LCS 880-82265/1-A

Matrix: Solid

m-Xylene & p-Xylene

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Analysis Batch: 82256

o-Xylene

Matrix: Solid Analysis Batch: 82256 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 82265

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/04/24 12:0	06/04/24 14:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/04/24 12:0	06/04/24 14:10	1

Client Sample ID: Lab Control Sample

70 - 130

70 - 130

Prep Type: Total/NA

Prep Batch: 82265

Analysis Batch: 82256 Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1010 mg/Kg 101 70 - 130 Toluene 0.100 0.09133 mg/Kg 91 70 - 130 0.100 Ethylbenzene 0.09576 mg/Kg 96 70 - 130

0.200

0.100

0.100

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Client Sample ID: Lab Control Sample Dup

98

98

110

mg/Kg

mg/Kg

mg/Kg

Prep Type: Total/NA Prep Batch: 82265

LCSD LCSD RPD Spike %Rec Added Result Qualifier Unit %Rec Limits RPD Limit 0.100 0.1146 mg/Kg 115 70 - 130 13 35 0.100 0.1034 mg/Kg 103 70 - 130 12 35 0.100 0.1085 mg/Kg 109 70 - 130 12 35 0.200 m-Xylene & p-Xylene 0.2218 mg/Kg 111 70 - 130 12 35

0.1104

0.1962

0.09784

LCSD LCSD

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

Lab Sample ID: 880-44241-A-1-A MS

Lab Sample ID: LCSD 880-82265/2-A

Matrix: Solid

Analysis Batch: 82256

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

70 - 130

35

Prep Batch: 82265

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.1003		mg/Kg	_	101	70 - 130	
Toluene	< 0.00199	U	0.0996	0.09035		mg/Kg		91	70 - 130	

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44241-A-1-A MS

Lab Sample ID: 880-44241-A-1-B MSD

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 82265

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0996	0.09423		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1936		mg/Kg		97	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.09708		mg/Kg		97	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 82265

Matrix: Solid Analysis Batch: 82256

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.101 Benzene <0.00199 U 0.1000 mg/Kg 99 70 - 130 0 35 0.08801 Toluene <0.00199 U 0.101 mg/Kg 87 70 - 130 3 35 Ethylbenzene <0.00199 U 0.101 0.08931 89 70 - 130 5 35 mg/Kg 0.202 70 - 130 35 m-Xylene & p-Xylene <0.00398 U 0.1818 mg/Kg 90 6 <0.00199 U 0.101 0.09097 90 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-82244/1-A

Matrix: Solid

Analysis Batch: 82547

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

Prep Batch: 82244

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 06/03/24 19:14 06/06/24 10:28 <50.0 U mg/Kg (GRO)-C6-C10 50.0 06/06/24 10:28 Diesel Range Organics (Over <50.0 U 06/03/24 19:14 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 06/03/24 19:14 06/06/24 10:28 mg/Kg

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	06/03/24 19:14	06/06/24 10:28	1
o-Terphenyl	112		70 - 130	06/03/24 19:14	06/06/24 10:28	1

Lab Sample ID: LCS 880-82244/2-A

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82244

	Spike	a LCS	LCS				%Rec	
Analyte	Adde	d Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	0 1270		mg/Kg		127	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	0 1232		mg/Kg		123	70 - 130	
C10-C28)								

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1 SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-82244/2-A

Lab Sample ID: LCSD 880-82244/3-A

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82244

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	133	S1+	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82244

Matrix: Solid Analysis Batch: 82547

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1068		mg/Kg		107	70 - 130	17	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1022		mg/Kg		102	70 - 130	19	20
C10-C28)									

LCSD LCSD

Sample Sample

Surrogate	%Recovery Qu	alifier Limits
1-Chlorooctane	107	70 - 130
o-Terphenyl	113	70 - 130

Lab Sample ID: 890-6733-A-1-C MS Client Sample ID: Matrix Spike

Me Me

Matrix: Solid

Analysis Batch: 82547

Prep Type: Total/NA

70 - 130

Prep Batch: 82244

	Gampic	Campic	Opino	1010	1110				/01 1CC	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	703.8		mg/Kg		71	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	II F1	997	695.4	F1	mg/Kg		67	70 - 130	
C40 C00)	10.0	011	001	000.1	• •	mg/rtg		01	70 - 100	

Snike

C10-C28)

	MS I	ИS	
Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-6733-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

997

Analysis Batch: 82547

Prep Batch: 82244 Spike MSD MSD %Rec RPD Sample Sample Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U 997 753.8 20 mg/Kg 70 - 130 (GRO)-C6-C10

729.0

mg/Kg

Diesel Range Organics (Over C10-C28)

MSD MSD

<49.9 UF1

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	88	70 - 130
o-Terphenyl	86	70 - 130

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1 SDG: Eddy County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-82330/1-A

Matrix: Solid

Analysis Batch: 82407

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL VIDIAN
 MDL VIDIAN
 Unit VIDIAN
 D VIDIAN
 Prepared VIDIAN
 Analyzed VIDIAN
 Dil Fac VIDIAN

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 06/06/24 13:57
 1

Lab Sample ID: LCS 880-82330/2-A

Matrix: Solid

Analysis Batch: 82407

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 258.3 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-82330/3-A

Matrix: Solid

Analysis Batch: 82407

Analysis Datch. 02407

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 258.7 250 mg/Kg 103 90 - 110

Lab Sample ID: 880-44252-A-1-D MS

Matrix: Solid

Analysis Batch: 82407

MS MS Sample Sample Spike %Rec Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 93.4 248 353.3 105 90 - 110 mg/Kg

Lab Sample ID: 880-44252-A-1-E MSD

Matrix: Solid

Analysis Batch: 82407

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 93.4 248 354.3 mg/Kg 105 90 - 110

Lab Sample ID: 880-44259-A-4-B MS

Matrix: Solid

Analysis Batch: 82407

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 1320 1260 2686 mg/Kg 108 90 - 110

Lab Sample ID: 880-44259-A-4-C MSD

Matrix: Solid

Analysis Batch: 82407

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec Chloride 1320 1260 2687 mg/Kg 109 90 - 110 20

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QC Association Summary

Client: Carmona Resources

Job ID: 880-44254-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 82256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	8021B	82265
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	8021B	82265
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	8021B	82265
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	8021B	82265
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	8021B	82265
MB 880-82265/5-A	Method Blank	Total/NA	Solid	8021B	82265
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	8021B	82265
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	82265
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	82265
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	82265

Prep Batch: 82265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	5035	<u> </u>
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-82265/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 82389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 82244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 82547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	82244
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	82244

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Page 15 of 23

QC Association Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1 SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 82547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	82244
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	82244
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	82244
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015B NM	82244
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	82244
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	82244
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	82244
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	82244

Analysis Batch: 82677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 82330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-44254-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-44254-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-44254-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-44254-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-82330/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44252-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44252-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-44259-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44259-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 82407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Soluble	Solid	300.0	82330
880-44254-2	H-2 (0-0.5')	Soluble	Solid	300.0	82330
880-44254-3	H-3 (0-0.5')	Soluble	Solid	300.0	82330
880-44254-4	H-4 (0-0.5')	Soluble	Solid	300.0	82330
880-44254-5	H-5 (0-0.5')	Soluble	Solid	300.0	82330
MB 880-82330/1-A	Method Blank	Soluble	Solid	300.0	82330
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	300.0	82330
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	82330
880-44252-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	82330
880-44252-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	82330
880-44259-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	82330
880-44259-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	82330

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Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

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

Date Collected: 06/03/24 00:00 Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			82677	06/06/24 15:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 15:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	82407	06/06/24 14:33	CH	EET MID

Client Sample ID: H-2 (0-0.5') Lab Sample ID: 880-44254-2 **Matrix: Solid**

Date Collected: 06/03/24 00:00

Date Received: 06/04/24 12:00

Bato	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			82677	06/06/24 15:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 15:55	TKC	EET MID

4.98 g

50 mL

10

50 mL

50 mL

82330

82407

82389

06/04/24 20:12

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

Leach

Analysis

DI Leach

Total BTEX

300.0

Date Collected: 06/03/24 00:00

Soluble

Soluble

Date Received: 06/04/24 12:00

Lab Sample	ID: 880-44254-3
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Lab Sample ID: 880-44254-4

SM

SA

СН

06/05/24 07:49

06/06/24 14:38

Matrix: Solid

EET MID

EET MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 19:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			82677	06/06/24 16:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 16:12	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82407	06/06/24 14:42	CH	EET MID

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

Total/NA

Date Collected	ate Collected: 06/03/24 00:00													
Date Received:	ate Received: 06/04/24 12:00													
	Batch	Batch		Dil	Initial	Final	Batch	Prepared						
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab				
Total/NA	Prep	5035			4.97 g	5 mL	82265	06/04/24 13:00	MNR	EET MID				
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 20:12	MNR	EET MID				

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EET MID

Page 17 of 23

1

Analysis

Lab Chronicle

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

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

Date Collected: 06/03/24 00:00 Date Received: 06/04/24 12:00 Lab Sample ID: 880-44254-4

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			82677	06/06/24 16:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 16:29	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82407	06/06/24 14:56	CH	EET MID

Client Sample ID: H-5 (0-0.5') Lab Sample ID: 880-44254-5

Date Collected: 06/03/24 00:00

Date Received: 06/04/24 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 20:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			82677	06/06/24 16:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 16:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	82407	06/06/24 15:01	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date		
Texas	NELAP		T104704400-23-26	06-30-24		
,	are included in this report, but ses not offer certification.	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes		
Analysis Method	Prep Method	Matrix	Analyte			
8015 NM		Solid	Total TPH			
Total BTEX		Solid	Total BTEX			

Method Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

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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: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44254-1	H-1 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00
880-44254-2	H-2 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00
880-44254-3	H-3 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00
880-44254-4	H-4 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00
880-44254-5	H-5 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00

Chain of Custody

880-44254 Chain of Custody

6/7/2024

)	Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com					H-5 (0-0.5')	H-4 (0-0.5')	H-3 (0-0.5')	H-2 (0-0.5')	H-1 (0-0.5)	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #:	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:		Project Manager:
		i to Mike C		×			0.5')	0.5')	0.5')	0.5')	0.5')	tification					PT			Е		Coppert	432-813-6823	Midland, TX 79701	310 W Wa	Carmona Resources	Conner Moehring
	Relinquish	armona / Mca		1			6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024	Date		Yes No NIA	Yes No NA	Yes No	Temp Blank:		'n	Eddy County, New Mexico	2354	ead 31 Fed 3H	823	X 79701	310 W Wall St Ste 500	Resources	ehring
	Relinquished by: (Signature)	armona@carmo					24	24	24	24	24	Time	Corrected Temperature:	Temperature Reading:		Thermometer ID:	Yes (No)			ew Mexico		Copperhead 31 Fed 3H Flare Fire (4.18.24)			1		
	е)	naresources.co					×	×	×	×	×	Soil	mperature:	Reading:	actor.) Wet ice:			Due Date:	Routine		Ema				
		m and Conner						6	G	G	G	Water Comp	7.1	20		5 AN	Was No			72 HR	Rush	Turn Around	Email: mcarmona@carmonaresources.com	City, State ZIP:	Address:	Company Name	Bill to: (if different)
\top		Moehring	H				1	1	1	_	1	p # of		<u> </u>	P	arar	nete	rs			Code		carmonan			jō.	5
	Date/Time	g / Cmc		+	+		×	×	×	×	×			В	TEX	802	1B						esource				Carmo
	Time	ehring					×	×	×	×	×	TP	H 80	15M	(G	₹0 +	DRO) + I	MRC))			s.com				Carmona Resources
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	Reseived by: (Signature)																				-	JEST	Deliverables: EDD	Reporting:Level III Level III	State of Project:	Program	
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					\dagger						r		NaCH	Zn Ac	Na ₂ S ₂	NaHS	H3PO4: HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO		ADaPT L	L'ST/UST		Program: UST/PST ☐PRP ☐ rownfields ☐ RC	Work Order Comments
14												Sample	+Ascorb	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	H	. H ₂	K	Cool	O	reserva	Other:	RRP]	□RC	ents
tel hal	Date/Time											Sample Comments	NaOH+Ascorbic Acid: SAPC	OH: Zn	0,	S		NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes		Level IV		perfund	

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-44254-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

Login Number: 44254 List Number: 1

Creator: Vasquez, Julisa

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	

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/27/2024 4:15:15 PM

JOB DESCRIPTION

Copperhead 31 Fed 3H Flare Fire (4.18.24) Eddy County, New Mexico

JOB NUMBER

880-45296-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 6/27/2024 4:15:15 PM

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

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Client: Carmona Resources Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) Laboratory Job ID: 880-45296-1 SDG: Eddy County, New Mexico

Table of Contents

1
3
4
5
6
7
8
12
14
15
16
17
18
19

Definitions/Glossary

Client: Carmona Resources Job ID: 880-45296-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

Qualifier Description

GC Semi VOA

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

HPLC/IC Qualifier

Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

DLC

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)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

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)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit 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

Presumptive PRES QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-45296-1

Project: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1 Eurofins Midland

Job Narrative 880-45296-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The sample was received on 6/26/2024 3:14 PM. 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 -2.1°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: H-2 (0-0.5') (880-45296-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84249 and analytical batch 880-84260 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

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84268 and analytical batch 880-84155 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-84268/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

3

5

6

8

9

11

13

14

Client Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Job ID: 880-45296-1

Lab Sample ID: 880-45296-1

Matrix: Solid

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

Released to Imaging: 8/6/2024 1:59:24 PM

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 15:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/26/24 15:33	06/26/24 20:56	
Toluene	< 0.00201	U	0.00201		mg/Kg		06/26/24 15:33	06/26/24 20:56	•
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/26/24 15:33	06/26/24 20:56	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/26/24 15:33	06/26/24 20:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/26/24 15:33	06/26/24 20:56	,
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/26/24 15:33	06/26/24 20:56	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130				06/26/24 15:33	06/26/24 20:56	
1,4-Difluorobenzene (Surr)	103		70 - 130				06/26/24 15:33	06/26/24 20:56	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/26/24 20:56	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/24 20:29	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U F1	49.8		mg/Kg		06/26/24 16:36	06/26/24 20:29	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U F1	49.8		mg/Kg		06/26/24 16:36	06/26/24 20:29	,
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8		49.8		mg/Kg		06/26/24 16:36	06/26/24 20:29	
Total TPH	<49.8	U F1	49.8		mg/Kg		06/26/24 16:36	06/26/24 20:29	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	76		70 - 130				06/26/24 16:36	06/26/24 20:29	
o-Terphenyl	75		70 - 130				06/26/24 16:36	06/26/24 20:29	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.2		5.02		mg/Kg			06/27/24 14:21	1

Surrogate Summary

Client: Carmona Resources Job ID: 880-45296-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	J
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45288-A-6-B MS	Matrix Spike	98	100	
880-45288-A-6-C MSD	Matrix Spike Duplicate	98	101	
880-45296-1	H-2 (0-0.5')	106	103	
LCS 880-84249/1-A	Lab Control Sample	100	100	
LCSD 880-84249/2-A	Lab Control Sample Dup	100	100	
MB 880-84249/5-A	Method Blank	102	100	
Surrogate Legend				
BFB = 4-Bromofluorobenz	zene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-45296-1	H-2 (0-0.5')	76	75
880-45296-1 MS	H-2 (0-0.5')	88	86
880-45296-1 MSD	H-2 (0-0.5')	73	75
LCS 880-84268/2-A	Lab Control Sample	84	89
LCSD 880-84268/3-A	Lab Control Sample Dup	100	104
MB 880-84268/1-A	Method Blank	148 S1+	170 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Job ID: 880-45296-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-84249/5-A

Lab Sample ID: LCS 880-84249/1-A

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84249

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/26/24 14:53	06/26/24 19:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/26/2	4 14:53	06/26/24 19:53	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/26/2	4 14:53	06/26/24 19:53	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 84260 Prep Batch: 84249

	Spike	LUS	LUG				/onec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08323		mg/Kg		83	70 - 130	
Toluene	0.100	0.07925		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.08005		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	0.200	0.1825		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08180		mg/Kg		82	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 84260

Lab Sample ID: LCSD 880-84249/2-A

Prep Type: Total/NA Prep Batch: 84249

	Spike	LC2D	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08483		mg/Kg		85	70 - 130	2	35	
Toluene	0.100	0.08083		mg/Kg		81	70 - 130	2	35	
Ethylbenzene	0.100	0.08123		mg/Kg		81	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1855		mg/Kg		93	70 - 130	2	35	
o-Xylene	0.100	0.08335		mg/Kg		83	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	100		70 ₋ 130

Lab Sample ID: 880-45288-A-6-B MS

Matrix: Solid

Analysis Batch: 84260

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

Prep Batch: 84249

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.07198		mg/Kg		72	70 - 130	
Toluene	<0.00199	U F1	0.100	0.06142	F1	mg/Kg		61	70 - 130	

Eurofins Midland

Page 8 of 19

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45288-A-6-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 84260

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U F1	0.100	0.05559	F1	mg/Kg		55	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1233	F1	mg/Kg		62	70 - 130	
o-Xylene	< 0.00199	U F1	0.100	0.05285	F1	mg/Kg		53	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-45288-A-6-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 84260

Prep Type: Total/NA

Prep Batch: 84249

Prep Batch: 84249

Sample Sample Spike MSD MSD RPD Result Qualifier Result Qualifier %Rec RPD Limit Analyte babbA Limits Unit 35

Benzene <0.00199 U 0.0994 0.07008 mg/Kg 71 70 - 130 3 Toluene <0.00199 UF1 0.0994 0.05817 F1 mg/Kg 59 70 - 130 5 35 Ethylbenzene <0.00199 UF1 0.0994 0.05104 F1 51 70 - 130 9 35 mg/Kg 0.199 m-Xylene & p-Xylene <0.00398 UF1 0.1130 F1 mq/Kq 57 70 - 130 9 35 0.0994 <0.00199 U F1 0.04874 F1 49 70 - 130 o-Xylene mg/Kg 8

MSD MSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-84268/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 84155

Prep Type: Total/NA Prep Batch: 84268

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 50.0 06/26/24 16:36 06/26/24 19:26 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 50.0 06/26/24 19:26 Diesel Range Organics (Over <50.0 U 06/26/24 16:36 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 06/26/24 16:36 06/26/24 19:26 mg/Kg Total TPH <50.0 U 50.0 06/26/24 16:36 06/26/24 19:26 mg/Kg

мв мв

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	06/26/24 16:36	06/26/24 19:26	1
o-Terphenyl	170	S1+	70 - 130	06/26/24 16:36	06/26/24 19:26	1

Lab Sample ID: LCS 880-84268/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 84155

Prep Batch: 84268 LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %Rec Limits Gasoline Range Organics 1000 900.3 90 70 - 130 mg/Kg

(GRO)-C6-C10

Eurofins Midland

Prep Type: Total/NA

Client: Carmona Resources

Job ID: 880-45296-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-84268/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 84155 Prep Batch: 84268 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits D 1000 840.2 84 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 70 _ 130 1-Chlorooctane 84 o-Terphenyl 89 70 - 130

Lab Sample ID: LCSD 880-84268/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 84155 Prep Batch: 84268

LCSD LCSD %Rec RPD Spike Result Qualifier Limit Analyte Added Unit D %Rec Limits RPD 1000 Gasoline Range Organics 921.4 mg/Kg 92 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 925.4 mg/Kg 93 70 - 130 10 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 100 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: 880-45296-1 MS **Client Sample ID: H-2 (0-0.5')** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 84155

Prep Batch: 84268 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U F1 999 495.1 F1 mg/Kg 50 70 - 130 (GRO)-C6-C10 <49.8 U F1 999 532.6 F1 53 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 88 70 - 130 o-Terphenyl 86 70 - 130

MS MS

Lab Sample ID: 880-45296-1 MSD **Client Sample ID: H-2 (0-0.5')** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 84155 Prep Batch: 84268 Sample Sample Spike MSD MSD RPD

Analyte Result Qualifier Added Result Qualifier RPD Limit Unit D %Rec Limits Gasoline Range Organics <49.8 U F1 999 411.8 F1 41 70 - 130 18 20 mg/Kg (GRO)-C6-C10 <49.8 U F1 999 455.0 F1 70 - 130 Diesel Range Organics (Over mg/Kg 46 16 20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	75		70 - 130

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Job ID: 880-45296-1

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84258/1-A

Matrix: Solid

Analysis Batch: 84311

MB MB

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 06/27/24 12:56
 1

Lab Sample ID: LCS 880-84258/2-A

Matrix: Solid

Analysis Batch: 84311

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 243.9 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-84258/3-A

Matrix: Solid

Analysis Batch: 84311

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 243.2 mg/Kg 90 - 110

Lab Sample ID: 880-45297-A-2-D MS

Matrix: Solid

Analysis Batch: 84311

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 27.7 248 283.8 103 90 - 110 mg/Kg

Lab Sample ID: 880-45297-A-2-E MSD

Matrix: Solid

Analysis Batch: 84311

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 27.7 282.3 mg/Kg 103 90 - 110 20

QC Association Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1 SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 84249

Lab Sample ID 880-45296-1	Client Sample ID H-2 (0-0.5')	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-84249/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84249/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84249/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45288-A-6-B MS	Matrix Spike	Total/NA	Solid	5035	
880-45288-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 84260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	8021B	84249
MB 880-84249/5-A	Method Blank	Total/NA	Solid	8021B	84249
LCS 880-84249/1-A	Lab Control Sample	Total/NA	Solid	8021B	84249
LCSD 880-84249/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84249
880-45288-A-6-B MS	Matrix Spike	Total/NA	Solid	8021B	84249
880-45288-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84249

Analysis Batch: 84327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 84155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	8015B NM	84268
MB 880-84268/1-A	Method Blank	Total/NA	Solid	8015B NM	84268
LCS 880-84268/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84268
LCSD 880-84268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84268
880-45296-1 MS	H-2 (0-0.5')	Total/NA	Solid	8015B NM	84268
880-45296-1 MSD	H-2 (0-0.5')	Total/NA	Solid	8015B NM	84268

Prep Batch: 84268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-84268/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84268/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45296-1 MS	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45296-1 MSD	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 84258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-84258/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84258/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84258/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1

SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 84258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-45297-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 84311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Soluble	Solid	300.0	84258
MB 880-84258/1-A	Method Blank	Soluble	Solid	300.0	84258
LCS 880-84258/2-A	Lab Control Sample	Soluble	Solid	300.0	84258
LCSD 880-84258/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84258
880-45297-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	84258
880-45297-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	84258

Lab Chronicle

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-45296-1

Matrix: Solid

Client Sample ID: H-2 (0-0.5') Date Collected: 06/25/24 00:00

Date Received: 06/26/24 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 20:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84327	06/26/24 20:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			84300	06/26/24 20:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84268	06/26/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84155	06/26/24 20:29	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 14:21	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

thority	Progra	ım	Identification Number	Expiration Date
kas	NELAF)	T104704400	06-30-24
	are included in this report, bu	t the laboratory is not certi	ied by the governing authority. This lis	t may include analyte
Analysis Method	Prep Method	Matrix	Analyte	
300.0		Solid	Chloride	
8015 NM		Solid	Total TPH	
8015B NM	8015NM Prep	Solid	Diesel Range Organics (O	ver C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics	(GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over	C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	m-Xylene & p-Xylene	
8021B	5035	Solid	o-Xylene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1

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: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45296-1	H-2 (0-0.5')	Solid	06/25/24 00:00	06/26/24 15:14

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Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-45296-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

Login Number: 45296

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/27/2024 4:15:45 PM

JOB DESCRIPTION

Copperhead 31 Fed 3H Flare Fire (4.18.24) Eddy County, New Mexico

JOB NUMBER

880-45297-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 6/27/2024 4:15:45 PM

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

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Client: Carmona Resources Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) Laboratory Job ID: 880-45297-1 SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Chacklists	23

2

3

4

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10

12

16

14

Definitions/Glossary

Client: Carmona Resources Job ID: 880-45297-1 Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Qualifiers

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

GC Semi VOA

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

HPLC/IC Qualifier

	•
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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 Positive / Present POS **Practical Quantitation Limit** PQL

PRES Presumptive **Quality Control** QC

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)

Too Numerous To Count TNTC

Case Narrative

Client: Carmona Resources Job ID: 880-45297-1

Project: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Eurofins Midland Job ID: 880-45297-1

Job Narrative 880-45297-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- 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 6/26/2024 1:10 PM. 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 -2.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (0-1') (880-45297-1), SW-1 (0-1') (880-45297-2), SW-2 (0-1') (880-45297-3), SW-3 (0-1') (880-45297-4) and SW-4 (0-1') (880-45297-5).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84249 and analytical batch 880-84260 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

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84266 and analytical batch 880-84152 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SW-1 (0-1') (880-45297-2) and (MB 880-84266/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico Lab Sample ID: 880-45297-1

Client Sample ID: CS-1 (0-1') Date Collected: 06/25/24 00:00

Matrix: Solid

Job ID: 880-45297-1

Date Received: 06/26/24 13:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/26/24 15:33	06/26/24 21:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130				06/26/24 15:33	06/26/24 21:16	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg	_		06/26/24 21:16	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			06/26/24 21:31	1

Method: SW846 8015B NM -	Diesel Range C	Organics ((DRO) (GC)
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		, , ,	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 21:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 21:31	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 21:31	1
Total TPH	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	06/26/24 16:31	06/26/24 21:31	1
o-Terphenyl	89		70 - 130	06/26/24 16:31	06/26/24 21:31	1

Method: EPA 300.0 - Anions, I	on Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.1	4.97	mg/Kg			06/27/24 14:26	1

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

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-2

06/26/24 15:33

Matrix: Solid

Method: SW846 8021B -	Volatile Or	ganic Com	pounds ((GC)	

101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/26/24 15:33	06/26/24 21:37	1

Eurofins Midland

06/26/24 21:37

70 - 130

1,4-Difluorobenzene (Surr)

Client Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1 SDG: Eddy County, New Mexico

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

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/26/24 21:37	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/24 21:52	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		06/26/24 16:31	06/26/24 21:52	
(GRO)-C6-C10	.50.0		50.0		11.7		00/00/04 40 04	00/00/04 04 50	
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		06/26/24 16:31	06/26/24 21:52	•
C10-C28) Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/26/24 16:31	06/26/24 21:52	
Total TPH	<50.0	U	50.0		mg/Kg		06/26/24 16:31	06/26/24 21:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	24	S1-	70 - 130				06/26/24 16:31	06/26/24 21:52	
o-Terphenyl	44	S1-	70 - 130				06/26/24 16:31	06/26/24 21:52	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	27.7		4.96		mg/Kg			06/27/24 14:32	1

Lab Sample ID: 880-45297-3 Client Sample ID: SW-2 (0-1')

Date Collected: 06/25/24 00:00

Date Received: 06/26/24 13:10

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				06/26/24 15:33	06/26/24 21:57	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/26/24 15:33	06/26/24 21:57	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/26/24 21:57	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/26/24 22:12	1

Eurofins Midland

06/26/24 22:12

06/26/24 16:31

49.7

mg/Kg

<49.7 U

Gasoline Range Organics

(GRO)-C6-C10

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

SDG: Eddy County, New Mexico

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

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:12	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:12	1
Total TPH	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				06/26/24 16:31	06/26/24 22:12	1
o-Terphenyl	83		70 ₋ 130				06/26/24 16:31	06/26/24 22:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Prepared Dil Fac D Analyzed 5.04 06/27/24 15:08 Chloride 7.46 mg/Kg

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

Date Collected: 06/25/24 00:00

Lab Sample ID: 880-45297-4

Matrix: Solid

Date Received: 06/26/24 13:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				06/26/24 15:33	06/26/24 22:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/26/24 15:33	06/26/24 22:18	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	rtoouit	Qualifici	IXL		•	_			
Total BTEX	<0.00400		0.00400		mg/Kg	=		06/26/24 22:18	1
Total BTEX Method: SW846 8015 NM - Diese	<0.00400	U	0.00400				Prepared		
	<0.00400	ics (DRO) (Qualifier	0.00400 GC)		mg/Kg			06/26/24 22:18	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00400 el Range Organ Result <49.7	ics (DRO) (0.00400 GC) RL 49.7		mg/Kg			06/26/24 22:18 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00400 el Range Organ Result <49.7 sel Range Organ	ics (DRO) (0.00400 GC) RL 49.7	MDL	mg/Kg			06/26/24 22:18 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00400 el Range Organ Result <49.7 sel Range Organ	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00400 GC) RL 49.7 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	06/26/24 22:18 Analyzed 06/26/24 22:33	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00400 el Range Organ Result <49.7 sel Range Orga Result	U ics (DRO) (Qualifier U anics (DRO) Qualifier U	0.00400 GC) RL 49.7 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	06/26/24 22:18 Analyzed 06/26/24 22:33 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00400 el Range Organ Result <49.7 sel Range Orga Result <49.7	ics (DRO) (Qualifier U unics (DRO) Qualifier U U U	0.00400 RL 49.7 (GC) RL 49.7	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 06/26/24 16:31	06/26/24 22:18 Analyzed 06/26/24 22:33 Analyzed 06/26/24 22:33	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<0.00400 el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7	U ics (DRO) (Qualifier U anics (DRO) Qualifier U U U	0.00400 RL 49.7 (GC) RL 49.7 49.7	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 06/26/24 16:31 06/26/24 16:31	06/26/24 22:18 Analyzed 06/26/24 22:33 Analyzed 06/26/24 22:33 06/26/24 22:33	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Total TPH	<0.00400 el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7 <49.7	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U U U U	0.00400 RL 49.7 (GC) RL 49.7 49.7	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 06/26/24 16:31 06/26/24 16:31	Analyzed 06/26/24 22:33 Analyzed 06/26/24 22:33 06/26/24 22:33 06/26/24 22:33	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00400 el Range Organ Result <49.7 <49.7 <49.7 <49.7	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U U U U	0.00400 RL 49.7 (GC) RL 49.7 49.7 49.7 49.7	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 06/26/24 16:31 06/26/24 16:31 06/26/24 16:31	Analyzed 06/26/24 22:33 Analyzed 06/26/24 22:33 06/26/24 22:33 06/26/24 22:33 06/26/24 22:33	Dil Fac

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

SDG: Eddy County, New Mexico

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

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-4

Matrix: Solid

Method: EPA 300.0 - Anions, Ion							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.0	5.05	mg/Kg			06/27/24 14:54	1

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

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/26/24 15:33	06/26/24 22:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/26/24 15:33	06/26/24 22:38	1

Method: TAL SOP Total BTEX - 1							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	mg/Kg			06/26/24 22:38	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/24 22:53	1
Mathada CW04C 004FD NM Discal Days		i (DDO) (CC)							
Method: SW846 8015B NM - Diesel Rang	je Orga	nics (DRO) (GC)							

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 22:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 22:53	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 22:53	1
Total TPH	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				06/26/24 16:31	06/26/24 22:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	31.0		4.95		mg/Kg			06/27/24 15:13	1

70 - 130

Eurofins Midland

06/26/24 16:31 06/26/24 22:53

o-Terphenyl

Surrogate Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45288-A-6-B MS	Matrix Spike	98	100	
880-45288-A-6-C MSD	Matrix Spike Duplicate	98	101	
880-45297-1	CS-1 (0-1')	106	103	
880-45297-2	SW-1 (0-1')	102	101	
880-45297-3	SW-2 (0-1')	104	101	
880-45297-4	SW-3 (0-1')	105	102	
880-45297-5	SW-4 (0-1')	102	101	
LCS 880-84249/1-A	Lab Control Sample	100	100	
LCSD 880-84249/2-A	Lab Control Sample Dup	100	100	
MB 880-84249/5-A	Method Blank	102	100	

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)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
45292-A-1-E MS	Matrix Spike	92	88	
45292-A-1-F MSD	Matrix Spike Duplicate	101	95	
5297-1	CS-1 (0-1')	88	89	
45297-2	SW-1 (0-1')	24 S1-	44 S1-	
5297-3	SW-2 (0-1')	86	83	
5297-4	SW-3 (0-1')	96	95	
5297-5	SW-4 (0-1')	83	79	
380-84266/2-A	Lab Control Sample	113	115	
) 880-84266/3-A	Lab Control Sample Dup	115	113	
880-84266/1-A	Method Blank	131 S1+	143 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-84249/5-A

Lab Sample ID: LCS 880-84249/1-A

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84249

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/26/24 14:53	06/26/24 19:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/26/2	4 14:53	06/26/24 19:53	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/26/2	4 14:53	06/26/24 19:53	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84249

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08323 mg/Kg 83 70 - 130 Toluene 0.100 0.07925 mg/Kg 79 70 - 130 0.100 0.08005 Ethylbenzene mg/Kg 80 70 - 130 0.200 0.1825 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08180 70 - 130 o-Xylene mg/Kg

LCS LCS

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

Lab Sample ID: LCSD 880-84249/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 84260

Analysis Batch: 84260

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84249

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08483		mg/Kg		85	70 - 130	2	35	
Toluene	0.100	0.08083		mg/Kg		81	70 - 130	2	35	
Ethylbenzene	0.100	0.08123		mg/Kg		81	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1855		mg/Kg		93	70 - 130	2	35	
o-Xylene	0.100	0.08335		mg/Kg		83	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-45288-A-6-B MS

Matrix: Solid

Analysis Batch: 84260

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

Prep Batch: 84249

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.07198		mg/Kg		72	70 - 130	
Toluene	< 0.00199	U F1	0.100	0.06142	F1	mg/Kg		61	70 - 130	

Lab Sample ID: 880-45288-A-6-C MSD

QC Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45288-A-6-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Matrix: Solid

Analysis Batch: 84260

Analysis Batch: 84260

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U F1	0.100	0.05559	F1	mg/Kg		55	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1233	F1	mg/Kg		62	70 - 130	
o-Xylene	< 0.00199	U F1	0.100	0.05285	F1	mg/Kg		53	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 84249

Prep Batch: 84266

Prep Batch: 84249

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier %Rec RPD Limit Analyte Added Unit Limits 0.0994 Benzene <0.00199 U 0.07008 mg/Kg 71 70 - 130 3 35 0.05817 F1 Toluene <0.00199 UF1 0.0994 mg/Kg 59 70 - 130 5 35 Ethylbenzene <0.00199 UF1 0.0994 0.05104 F1 51 70 - 130 9 35 mg/Kg 0.199 0.1130 F1 35 m-Xylene & p-Xylene <0.00398 UF1 mg/Kg 57 70 - 130 9 0.0994 <0.00199 U F1 0.04874 F1 49 70 - 130 o-Xylene mg/Kg 8

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-84266/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 84152

MR MR

ı										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0		mg/Kg		06/26/24 16:30	06/26/24 19:26	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		06/26/24 16:30	06/26/24 19:26	1
	C10-C28)									
	Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/26/24 16:30	06/26/24 19:26	1
	Total TPH	<50.0	U	50.0		mg/Kg		06/26/24 16:30	06/26/24 19:26	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	06/26/24 16:30	06/26/24 19:26	1
o-Terphenyl	143	S1+	70 - 130	06/26/24 16:30	06/26/24 19:26	1

Lab Sample ID: LCS 880-84266/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 64152							Prep) Batch:	04200
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	949.7		mg/Kg		95	70 - 130		

(GRO)-C6-C10

Eurofins Midland

Prep Type: Total/NA

QC Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1 SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-84266/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 84152** Prep Batch: 84266 LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Diesel Range Organics (Over 1000 904.9 90 70 - 130 mg/Kg

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: LCSD 880-84266/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Prep Batch: 84266

Analysis Batch: 84152

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limit Analyte Unit %Rec Limits RPD 1000 974.6 97 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 917.2 mg/Kg 92 70 - 130 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 880-45292-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 84152

•	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	<50.0	U	994	911.0		mg/Kg		89	70 - 130
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U F1	994	514.1	F1	mg/Kg		52	70 - 130
040 000)									

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Ternhenyl	88		70 - 130

Lab Sample ID: 880-45292-A-1-F MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 84152									Prep	Batch:	84266
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	994	998.7		mg/Kg		97	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U F1	994	561.5	F1	mg/Kg		56	70 - 130	9	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Ternhenyl	95		70 130

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Prep Type: Total/NA

Prep Batch: 84266

QC Sample Results

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24) Method: 300.0 - Anions, Ion Chromatography Job ID: 880-45297-1

Client Sample ID: Method Blank

SDG: Eddy County, New Mexico

Lab Sample ID: MB 880-84258/1-A

Lab Sample ID: LCS 880-84258/2-A

Matrix: Solid

Analysis Batch: 84311

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 06/27/24 12:56

Client Sample ID: Lab Control Sample

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

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 84311

Matrix: Solid

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 243.9 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-84258/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 84311

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 243.2 mg/Kg 90 - 110

Lab Sample ID: 880-45297-2 MS Client Sample ID: SW-1 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 84311

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 27.7 248 283.8 103 90 - 110 mg/Kg

Lab Sample ID: 880-45297-2 MSD

Matrix: Solid

Analysis Batch: 84311

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 27.7 282.3 mg/Kg 103 90 - 110 20

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QC Association Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1 SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 84249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	5035	
880-45297-2	SW-1 (0-1')	Total/NA	Solid	5035	
880-45297-3	SW-2 (0-1')	Total/NA	Solid	5035	
880-45297-4	SW-3 (0-1')	Total/NA	Solid	5035	
880-45297-5	SW-4 (0-1')	Total/NA	Solid	5035	
MB 880-84249/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84249/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84249/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45288-A-6-B MS	Matrix Spike	Total/NA	Solid	5035	
880-45288-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 84260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	8021B	84249
880-45297-2	SW-1 (0-1')	Total/NA	Solid	8021B	84249
880-45297-3	SW-2 (0-1')	Total/NA	Solid	8021B	84249
880-45297-4	SW-3 (0-1')	Total/NA	Solid	8021B	84249
880-45297-5	SW-4 (0-1')	Total/NA	Solid	8021B	84249
MB 880-84249/5-A	Method Blank	Total/NA	Solid	8021B	84249
LCS 880-84249/1-A	Lab Control Sample	Total/NA	Solid	8021B	84249
LCSD 880-84249/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84249
880-45288-A-6-B MS	Matrix Spike	Total/NA	Solid	8021B	84249
880-45288-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84249

Analysis Batch: 84328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-2	SW-1 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-3	SW-2 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-4	SW-3 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-5	SW-4 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-5	SW-4 (0-1 ⁻)	Iotal/NA	Solid	Iotal BTEX	

GC Semi VOA

Analysis Batch: 84152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	8015B NM	84266
880-45297-2	SW-1 (0-1')	Total/NA	Solid	8015B NM	84266
880-45297-3	SW-2 (0-1')	Total/NA	Solid	8015B NM	84266
880-45297-4	SW-3 (0-1')	Total/NA	Solid	8015B NM	84266
880-45297-5	SW-4 (0-1')	Total/NA	Solid	8015B NM	84266
MB 880-84266/1-A	Method Blank	Total/NA	Solid	8015B NM	84266
LCS 880-84266/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84266
LCSD 880-84266/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84266
880-45292-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	84266
880-45292-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	84266

Prep Batch: 84266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-45297-2	SW-1 (0-1')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1 SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 84266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-3	SW-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-45297-4	SW-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-45297-5	SW-4 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-84266/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84266/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84266/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45292-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-45292-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	8015 NM	
880-45297-2	SW-1 (0-1')	Total/NA	Solid	8015 NM	
880-45297-3	SW-2 (0-1')	Total/NA	Solid	8015 NM	
880-45297-4	SW-3 (0-1')	Total/NA	Solid	8015 NM	
880-45297-5	SW-4 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 84258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Soluble	Solid	DI Leach	
880-45297-2	SW-1 (0-1')	Soluble	Solid	DI Leach	
880-45297-3	SW-2 (0-1')	Soluble	Solid	DI Leach	
880-45297-4	SW-3 (0-1')	Soluble	Solid	DI Leach	
880-45297-5	SW-4 (0-1')	Soluble	Solid	DI Leach	
MB 880-84258/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84258/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84258/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45297-2 MS	SW-1 (0-1')	Soluble	Solid	DI Leach	
880-45297-2 MSD	SW-1 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 84311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Soluble	Solid	300.0	84258
880-45297-2	SW-1 (0-1')	Soluble	Solid	300.0	84258
880-45297-3	SW-2 (0-1')	Soluble	Solid	300.0	84258
880-45297-4	SW-3 (0-1')	Soluble	Solid	300.0	84258
880-45297-5	SW-4 (0-1')	Soluble	Solid	300.0	84258
MB 880-84258/1-A	Method Blank	Soluble	Solid	300.0	84258
LCS 880-84258/2-A	Lab Control Sample	Soluble	Solid	300.0	84258
LCSD 880-84258/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84258
880-45297-2 MS	SW-1 (0-1')	Soluble	Solid	300.0	84258
880-45297-2 MSD	SW-1 (0-1')	Soluble	Solid	300.0	84258

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Lab Chronicle

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1 SDG: Eddy County, New Mexico

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

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 21:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 21:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			84315	06/26/24 21:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 21:31	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 14:26	CH	EET MID

Lab Sample ID: 880-45297-2 Client Sample ID: SW-1 (0-1') Date Collected: 06/25/24 00:00 **Matrix: Solid**

Date Received: 06/26/24 13:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 21:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 21:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			84315	06/26/24 21:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 21:52	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 14:32	CH	EET MID

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

Date Collected: 06/25/24 00:00

Date Received: 06/26/24 13:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 21:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 21:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			84315	06/26/24 22:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 22:12	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 15:08	CH	EET MID

Client Sample ID: SW-3 (0-1') Lab Sample ID: 880-45297-4

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 13:10

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 84249 06/26/24 15:33 MNR EET MID 5.00 g 5 mL Total/NA Analysis 8021B 1 5 mL 5 mL 84260 06/26/24 22:18 MNR **EET MID** Total BTEX 84328 06/26/24 22:18 EET MID Total/NA Analysis 1 SM

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Matrix: Solid

Page 17 of 23

Lab Sample ID: 880-45297-3

Matrix: Solid

Lab Chronicle

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

SDG: Eddy County, New Mexico

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

Date Collected: 06/25/24 00:00 Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			84315	06/26/24 22:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 22:33	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 14:54	CH	EET MID

Lab Sample ID: 880-45297-5

Client Sample ID: SW-4 (0-1') Date Collected: 06/25/24 00:00 **Matrix: Solid**

Date Received: 06/26/24 13:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 22:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 22:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			84315	06/26/24 22:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 22:53	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 15:13	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1 SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

thority	Progra	ım	Identification Number	Expiration Date
cas	NELAF)	T104704400	06-30-24
• •	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0		Solid	Chloride	
8015 NM		Solid	Total TPH	
8015B NM	8015NM Prep	Solid	Diesel Range Organics (O	ver C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics	(GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over	C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	m-Xylene & p-Xylene	
8021B	5035	Solid	o-Xylene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

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

Eurofins Midland

Sample Summary

Client: Carmona Resources

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45297-1	CS-1 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10
880-45297-2	SW-1 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10
880-45297-3	SW-2 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10
880-45297-4	SW-3 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10
880-45297-5	SW-4 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10

Phigospherical Statement Common Medical Designation Common Records						5	Chain of		Custody	^					880-45	297 Cha	880-45297 Chain of Custody	<u></u>		irea by OCD
Michael Corner Medition Control Medition Cont																	Page	-	1	
10 to 1 t	Project Manager.	Conner Moehring			Bill to: (if diffi	erent)	Ĭ	armona	Resources						Wo	rk Order	Comment	50		
State Continue	ompany Name:	Carmona Resources			Company N	lame:							Progr	am: UST/		P Drow	"nfields	ည္က	Derfund	
Maintainer Mai	ddress:	310 W Wall St Ste 500			Address:								State	of Projec	ננ					
State Copportuned 3 Face Face	ity, State ZIP:	Midland, TX 79701			City, State	:dl2							Repor	ting:Level	II DLeve					
Preservetive Codes	hone:	432-813-6823		Email:	mcarmons	э@сагт	onarest	urces.co	티				Delive	rables: E		ADaf		Other:		
	roject Name:	Copperhead 31 Fed 3H Flan	re Fire (4.18.24)	Turn	Around						ANAL	YSIS RE	QUEST				Pres	ervative	Codes	
Control Cont	roject Number:	2354		☐ Routine	Rush		Code										None: NO	ā	Vater: H ₂ O	
CEIT Tapp Blank:	roject Location	Eddy County, New	Mexico	Due Date:	24 HI	œ											Cool: Cool		OH: Me	
PLE RECEIPT Tagg Bunk: Year (No.) Wee lost: Year (No.) Year (No	ampler's Name:	2						OA				•	:				HCL: HC		NH :C	
Tagge Blank Ves (No.) Weet lease Ves (0#:				8		SJ	W + (H2S04: H2		OH: Na	
Yes, No. Thermonellar Discourse Yes, No. Thermonellar Discourse Yes, No. Thermonellar Discourse Yes, No.	AMPLE RECE		Yes (No	Wet Ice:		No.	ətər	-	0.00								H3PO4: HP			
Vee No. NA Correction Fedor Corrected Temperature Relating Control Correction Fedor Corrected Temperature Relating Corrected Temperature Received by, (Signature) Corrected Temperature Relating	eceived Intact:	Yes No	Thermometer ID:		T.R.	4	nen		e 30								NaHSO4:	VABIS		
Yes No NIA Temperature Reading Composition Com	ooler Custody Seal	Kes No/	Correction Factor	Ľ	3		ьq	-	bino								Na ₂ S ₂ O ₃ : I	VaSO ₃		
Corrected Temperature:	ample Custody Sea	Yes No	Temperature Rea	ading:	P	0		-	СРІ					_			Zn Acetate	+NaOH: Z	_	
Grab # of Gort A	otal Containers:		Corrected Temps	erature:	4	-		108									NaOH+Ase	corbic Acid	SAPC	
(0-1) 6/25/2024	Sample Ider		Time	Soil		Grab/	# of	HqT									Sam	ple Com	nents	
C	CS-1 (×		U	-	┿	╁		_		-							
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Relinquished by: (Signature) Colt. Lyt. 4 Colt. Lyt. 4	Comments: Ema	ii to Mike Carmona / Mcarm	lona@carmonar	esources.com	and Conr	Ter Moe	hring /	Smoehr	ng@car	monares	ources	E CO								
- Carmen - Cpt 4/24		Relinquished	by: (Signature)					ate/Time				Re	ceived b	y: (Signa	ture)			Date	Time	
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Page 22 of 23

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-45297-1

SDG Number: Eddy County, New Mexico

Login Number: 45297 List Source: Eurofins Midland
List Number: 1

Creator: Vasquez, Julisa

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	N/A	

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<6mm (1/4").



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

May 09, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: GRAHAM NASH 8H - FLARE FIRE

Enclosed are the results of analyses for samples received by the laboratory on 05/08/24 16:05.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

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: 05/08/2024 Reported: 05/09/2024

Project Name: GRAHAM NASH 8H - FLARE FIRE

Project Number: 2323

Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: TPLT ASTRONAUT CALICHE PIT #1 (H242511-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2024	ND	2.05	102	2.00	6.55	
Toluene*	<0.050	0.050	05/09/2024	ND	1.99	99.4	2.00	6.27	
Ethylbenzene*	<0.050	0.050	05/09/2024	ND	1.94	97.1	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/09/2024	ND	5.69	94.9	6.00	5.92	
Total BTEX	<0.300	0.300	05/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	84.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	191	95.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	195	97.7	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					
Surrogate: 1-Chlorooctane	63.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.8	% 49.1-14	8						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonareso	TPLT Astronaut Caliche Pit #1	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#:	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: 43	City, State ZIP: Mi	Address: 31	Company Name: Ca	Project Manager: Co			
Mike Carmona	Н	ication		Yes (No)	10	(Yes) 1	Temp Blank:			Eddy Cour		Graham Nas	432-813-6823	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Conner Moehring			
ona / Mcarmona@carmon.	5/8/2024	Date Ti	Correct	N/A Temper	N/A Correct	No Thermo			JM	Eddy County, New Mexico	2323	Graham Nash 8H - Flare Fire			500	S				
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s.com and Conne		Water	١,	1010)	* 1 U	ce: Yes No				ne 🗸 Rush	Turn Around	Email: mcarmona@carmonaresources.com	City, State ZIP:	Address:	Company Name	Bill to: (if different)			
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DQCC												ANALYSIS REQUEST								<
Received by: (Signature)								11				QUEST	Deliverables: EDD	Reporting:Level II Level III	State of Project:	Program: UST/PST PRP			Wo	
			NaC	Zn A	Na ₂	Nah	H ₃ P	H ₂ S	HCL	0 20	Non		☐ ADaPT ☐	Level III ST/UST		□PRP □ rownfields	Work Order Comments		Work Order No: 2นาร	
Date/Time		Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS			HCL: HC HNO: HN	-	None: NO DI Water: F	Preservative Codes	Other:	RRP Level IV		ds	ments	Page1 of1	1152h	
										120	5								Page 4 of	4

District III

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

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

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

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

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

QUESTIONS

Action 365281

QUESTIONS

ı	Operator:	OGRID:
ı	COG OPERATING LLC	229137
ı	600 W Illinois Ave	Action Number:
ı	Midland, TX 79701	365281
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2411129556					
Incident Name	NAPP2411129556 COPPERHEAD 31 FEDERAL COM #3H @ 30-015-42379					
Incident Type	Fire					
Incident Status	Remediation Closure Report Received					
Incident Well	[30-015-42379] COPPERHEAD 31 FEDERAL COM #003H					

Location of Release Source					
Please answer all the questions in this group.					
Site Name	Copperhead 31 Federal Com #3H				
Date Release Discovered	04/18/2024				
Surface Owner Federal					

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

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

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

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

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

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

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 365281

Operator: COG OPERATING LLC SON Willings Aye Middland, TX 79701 DUESTIONS OUESTIONS OUESTIONS OUESTIONS OUESTIONS OUESTIONS OUESTIONS OUESTIONS It is a gas only submission (i.e. only significant Mcf values reported) It is this a gas only submission (i.e. only significant Mcf values reported) 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 with this property of the considered as submission for a notification of a major release of the this submission of the 19.15.27 NMAC (00.259021), venting and/or fishing of release has been second to protect human health and the environment The source of the release has been secured to protect human health and the environment Peleased materials have been contained via the use of berms or dikes, absorbent packs, or other containment devices All free liquids and recoverable materials have been removed and managed All free liquids and recoverable materials have been removed and managed Appropriately If all the actions described above have not been undertaken, explain why Not answered. Not answered. Not answered. Not answered. Not providing the release has less secured to protect human health and the environment feedings and recoverable materials have been contained via the use of berms or dikes, absorbent packs, or other containment devices Appropriately If all the actions described above have not been undertaken, explain why Not answered. Not answered. Not answered. Not answered. Not answered. Not providing the discovery of a nelesse. If emediation has begue, piesse prepare and statics to solve we will wall has been accounted within a lined containment area (see Subparagraph (s) of Subsection A of 19.15 submission. International of the internation of responsibility for compliance will any other federal, side, or counter weather and understand that pursuant to OCD rules and regulations all operators are required to report will write th	Phone:(505) 476-3470 Fax:(505) 476-3462	
Coperation Cop	QUESTI	ONS (continued)
Nature and Volume of Release (continued) Is this a gas only submission (i.e. only significant Mcf values reported) 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 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 flating of netural 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 Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately If all the actions described above have not been undertaken, explain why 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 following C-141 submission. If remediately definition immediately after discovery of a release if remediation has begun, please prepare and attach a narrative of actions to date in the following C-141 submission if remediate offorts have been accessfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (b) of Subsection A of 19.15.29.11 MMAC) passes pragate and flate the influence of containment area (see Subparagraph	Operator: COG OPERATING LLC 600 W Illinois Ave	OGRID:
Is this a gas only submission (i.e. only significant Mcf values reported) Was this a major release as defined by Subsection A of 19.15.29.7 NMAC Reasons why this would be considered a submission for a notification of a major release Reasons why this would be considered a submission for a notification of a major release (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) 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 five or is the results of a five. (a) results in a five or is the release of a volume that: (a) results in a five or is the release of a volume that: (a) results in a five or is the release of a volume that: (a) results in a five or is the release of a volume that: (a) results in a five or is the release or is the release or is the release or is the release or	QUESTIONS	
Reasons why this would be considered a submission for a notification of a major release as defined by Subsection A of 19.15.29.7 NMAC Reasons why this would be considered a submission for a notification of a major 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 fiaring 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 Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately If all the actions described above have not been undertaken, explain why 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 discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to discovery that the information of the prograph (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: Interby 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 within any endanger public health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of liabi	Nature and Volume of Release (continued)	
Reasons why this would be considered a submission for a notification of a major release "(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume packed on the cruzy of a release. If remediation and the volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of 3 volume and the volume and unauthorized release of a volume and the volume and the volume and the volume and the volume a	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.
Reasons why this would be considered a submission for a notification of a major release (1) a nunathorized 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 Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately If all the actions described above have not been undertaken, explain why 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 19.15.29.1 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission. Ihereby 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	Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
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 True True Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately If all the actions described above have not been undertaken, explain why Not answered. Not answered. 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 19.15.29.1 NMAC), please prepare and attach an information needed for closure evaluation in the follow-up C-141 submission. It 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, number 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.	· · · · · · · · · · · · · · · · · · ·	(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that:
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 Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately If all the actions described above have not been undertaken, explain why Not answered. Per Paragraph (4) of Subsection 8 of 19.15.29.8 NIMAC 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 NIMAC), 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.	With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
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Title: Environmental Technician

Date: 07/18/2024

Email: brittany.Esparza@ConocoPhillips.com

I hereby agree and sign off to the above statement

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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 3

Action 365281

QUESTIONS (continued)

Operator:	OGRID:					
COG OPERATING LLC	229137					
600 W Illinois Ave	Action Number:					
Midland, TX 79701	365281					
	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 51 and 75 (ft.)				
What method was used to determine the depth to ground water	Direct Measurement				
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 ½ and 1 (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	Between 1 and 5 (mi.)				
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)				
Any other fresh water well or spring	Between ½ and 1 (mi.)				
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)				
A wetland	Between ½ and 1 (mi.)				
A subsurface mine	Greater than 5 (mi.)				
An (non-karst) unstable area	Between 1 and 5 (mi.)				
Categorize the risk of this well / site being in a karst geology	Medium				
A 100-year floodplain	Between ½ and 1 (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 pr	rovided to the appropriate district office no later than 90 days after the release discovery date.			
Requesting a remediation plan approval with this submission	Yes			
Attach a comprehensive report demonstrating the lateral and vertical extents of soil cont	tamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.			
Have the lateral and vertical extents of contamination been fully delineated	d Yes			
Was this release entirely contained within a lined containment area	No			
Soil Contamination Sampling: (Provide the highest observable value for each	ch, in milligrams per kilograms.)			
Chloride (EPA 300.0 or SM4500 Cl B)	903			
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0			
GRO+DRO (EPA SW-846 Method 8015M)	0			
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 which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,			
On what estimated date will the remediation commence	06/25/2024			
On what date will (or did) the final sampling or liner inspection occur	06/25/2024			
On what date will (or was) the remediation complete(d)	06/25/2024			
What is the estimated surface area (in square feet) that will be reclaimed	0			
What is the estimated volume (in cubic yards) that will be reclaimed	0			
What is the estimated surface area (in square feet) that will be remediated	d 160			
What is the estimated volume (in cubic yards) that will be remediated 5				
These estimated dates and measurements are recognized to be the best guess or calculate	ation 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 adj	justed 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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 365281

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	365281
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Copperhead 31 Fed 3H - RT BTTY [fAPP2203847044]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	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.

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

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

I hereby agree and sign off to the above statement

Name: Brittany Esparza
Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 07/18/2024

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

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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 5

Action 365281

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	365281
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I

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QUESTIONS, Page 6

Action 365281

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	365281
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	356629
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/25/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	200

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission Yes				
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	160			
What was the total volume (cubic yards) remediated	5			
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)	Area was excavated and contaminated material disposed of. Back filled with clean caliche.			

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

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

Name: Brittany Esparza

I hereby agree and sign off to the above statement

Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 07/18/2024

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QUESTIONS, Page 7

Action 365281

QUESTIONS	(continued)
QUESTIONS!	COH I III I I I I C C I I

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	365281
	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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CONDITIONS

Action 365281

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	365281
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/6/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/6/2024