



SITE INFORMATION

Closure Report
Red Light 27 34 State Com #002H
Incident ID: nAPP2508438017
Eddy County, New Mexico
Unit D Sec 27 T23S R26E
32.281726°, -104.286554°

Crude Oil and Produced Water Release
Point of Release: Equipment Failure on Separator
Release Date: 03/24/2025
Volume Released: 2 Barrels of Crude Oil and 11 Barrels of Produced Water
Volume Recovered: 2 Barrels of Crude Oil and 11 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Marathon Oil Permian, LLC
600 W Illinois Ave
Midland, Texas 79701

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

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

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April 27, 2026

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

Re: Closure Report
Red Light 27 34 State Com #002H
Incident ID: nAPP2508438017
Marathon Oil Permian, LLC
Site Location: Unit D, S27, T23S, R26E
(Lat 32.281726°, Long -104.286554°)
Eddy County, New Mexico

Mr. Bratcher:

At the request of Marathon Oil Permian, LLC (Marathon), Carmona Resources LLC has prepared this letter to document the site remediation conducted at the Red Light 27 34 State Com #002H, located at 32.281726°, -104.286554° within Unit D, S27, T23S, R26E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notification of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 24, 2025, due to a nipple on the bottom of a low-pressure separator failing. The incident resulted in the release of approximately two (2) barrels of crude oil and eleven (11) barrels of produced water. The recovered fluids were approximately two (2) barrels of crude oil and eleven (11) barrels of produced water. The impacted area occurred off the pad and into the pasture as shown in Figure 3. The Notification of Release and initial C-141 forms are 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, there is one (1) known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.35 miles North of the site in S22, T23S, R26E and was drilled in 2023. The well has a reported depth to groundwater of 256.5' below ground surface (bgs). A copy of the associated well log is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On April 17, 2025, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of four (4) sample points (S-1 through S-4) and three (3) horizontal sample points (H-1 through H-3) were installed to total depths ranging from surface to 3' bgs inside and surrounding



the release area to evaluate the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to 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.

5.0 Remediation Activities

Carmona Resources personnel were on site to guide excavation activities, collect confirmation samples and document backfill activities. Before collecting composite confirmation samples, the NMOC division office was notified via NMOC portal on June 4, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. A total of three (3) confirmation floor samples were collected (CS-1 through CS-3), and six (6) sidewall samples (SW-1 through SW-6) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated area was backfilled with clean material to surface grade. The material utilized for backfill was sourced locally. The composite pit sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 105 cubic yards of material were excavated and transported off-site for proper disposal.

6.0 Conclusions

Based on the assessment and analytical data from the remediation, no further actions are required at the site. Marathon formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-6823.

Sincerely,

Carmona Resources, LLC

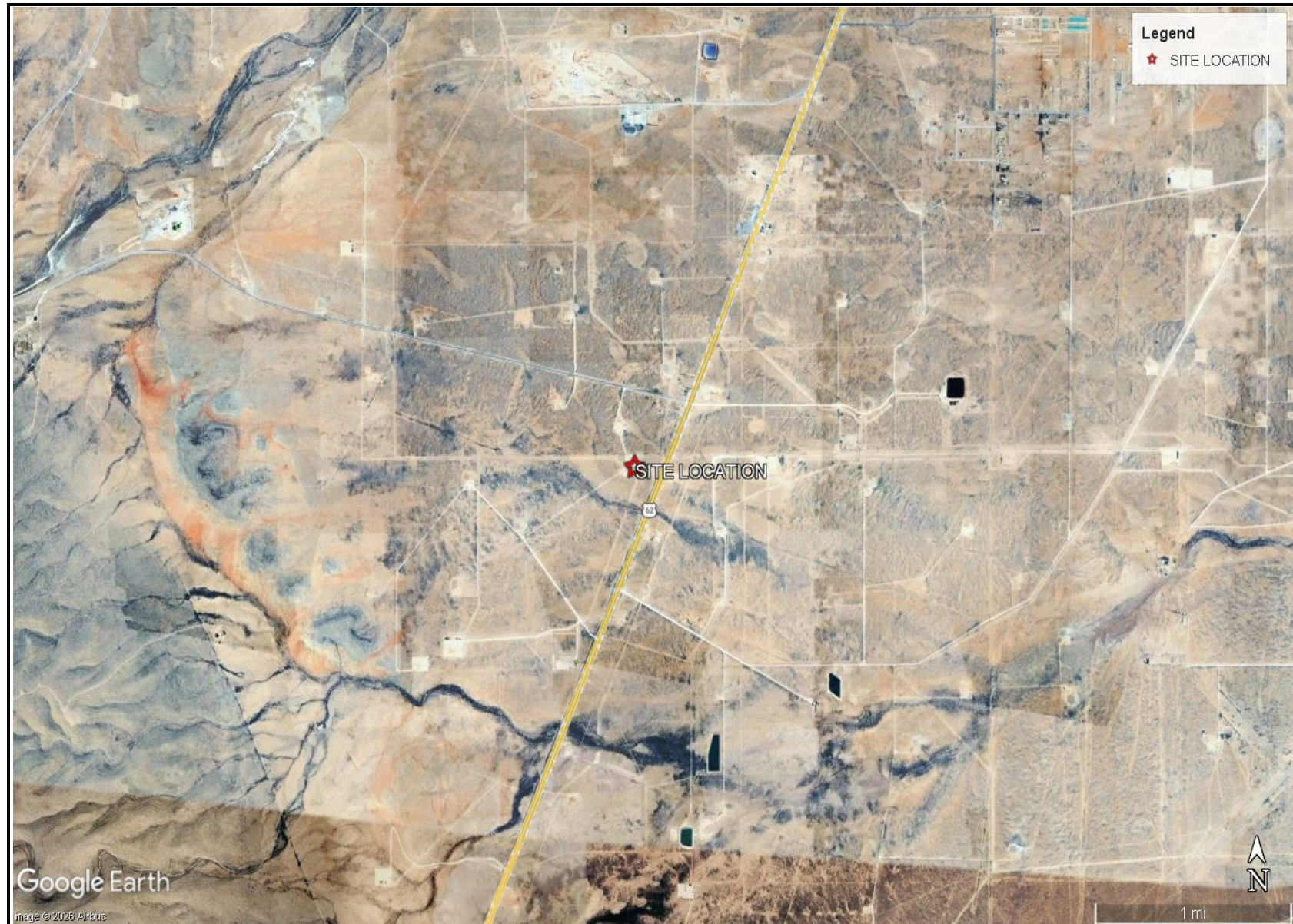
Conner Moehring
Environmental Manager

Stephen Reyes
Environmental Engineer

FIGURES

CARMONA RESOURCES

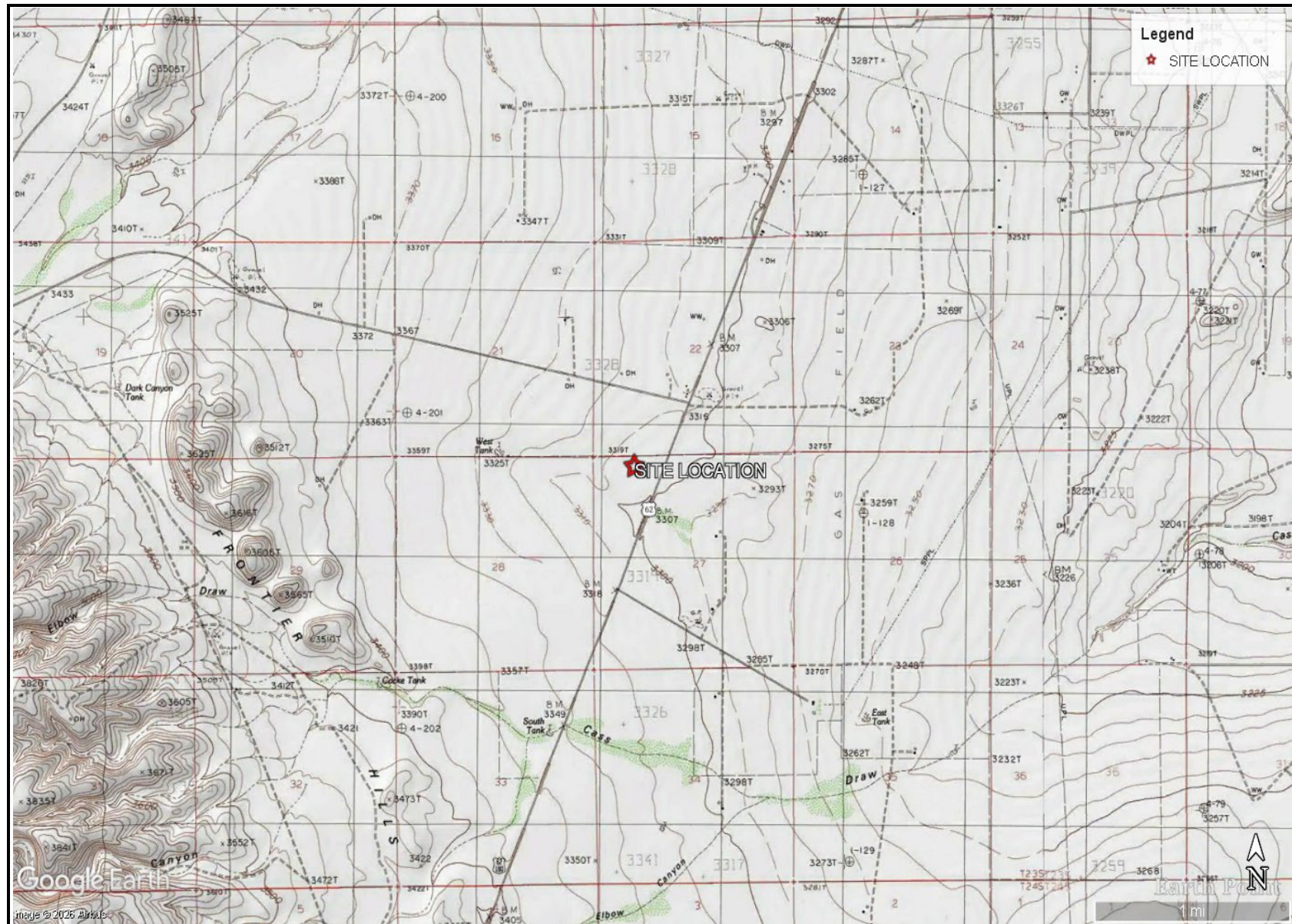




OVERVIEW MAP
MARATHON OIL PERMIAN, LLC
RED LIGHT 27 34 STATE COM #002H
EDDY COUNTY, NEW MEXICO
32.281726°, -104.286554°



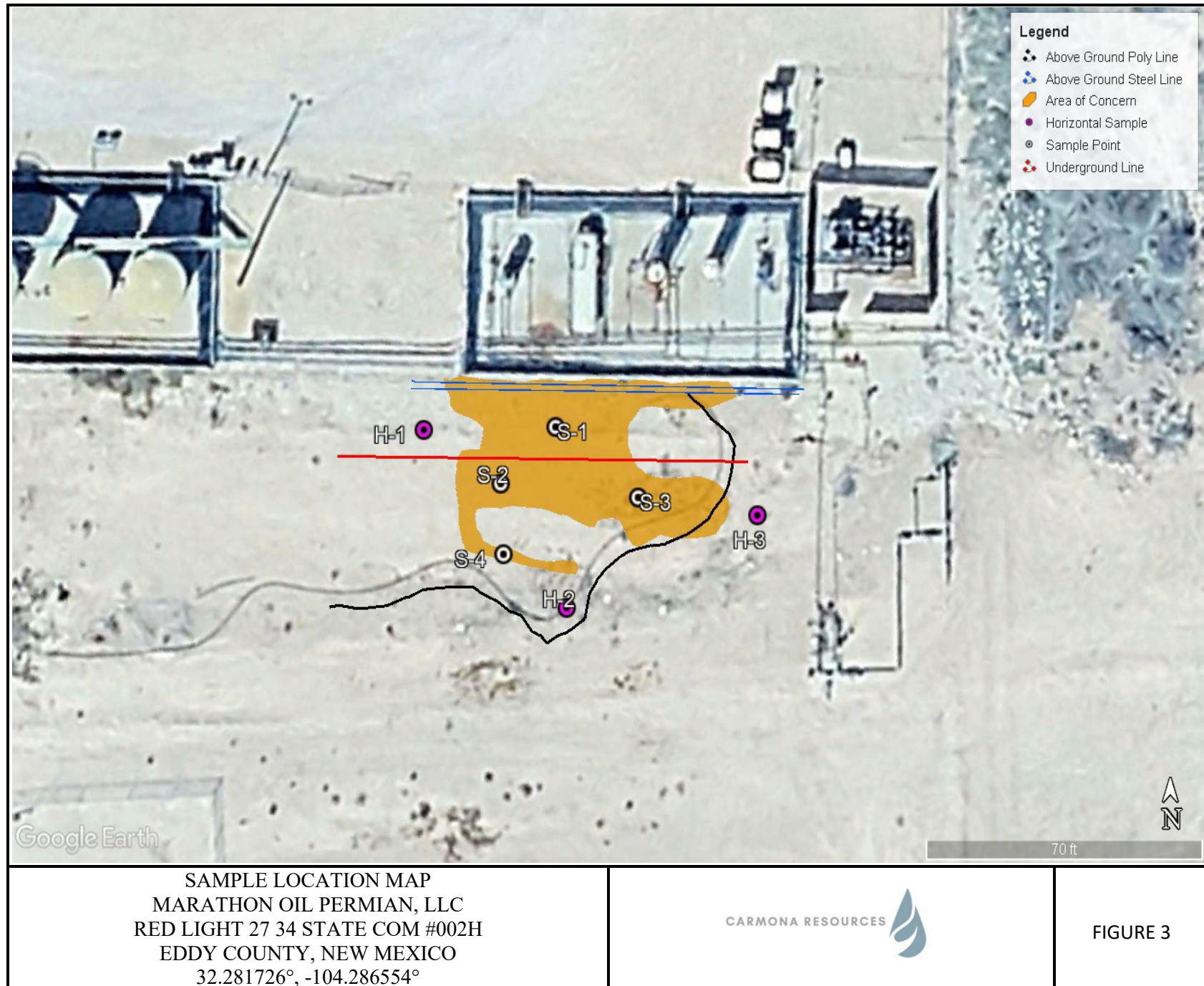
FIGURE 1



TOPOGRAPHIC MAP
MARATHON OIL PERMIAN, LLC
RED LIGHT 27 34 STATE COM #002H
EDDY COUNTY, NEW MEXICO
32.281726°, -104.286554°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
Marathon Oil Corporation
Red Light 27 34 State Com 002H
Eddy County, New Mexico

Sample ID	Date	Depth (in/ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	4/17/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	109
	"	1'	<49.9	53.1	<49.9	53.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	190
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	252
	"	2'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	273
	"	3'	<50.1	161	<50.1	161	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	186
S-2	4/17/2025	0-0.5'	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	97.0
	"	1'	<50.1	57.0	<50.1	57.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	201
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	261
	"	2'	<49.9	58.9	<49.9	58.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	231
	"	3'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	228
S-3	4/17/2025	0-0.5'	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	105
	"	1'	<50.0	63.4	<50.0	63.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	322
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	245
	"	2'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	233
	"	3'	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	148
S-4	4/17/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	85.2
	"	1'	<49.9	50.6	<49.9	50.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	155
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	318
	"	2'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	201
	"	3'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	146
H-1	4/17/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	92.6
H-2	4/17/2025	0-0.5'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	105
H-3	4/17/2025	0-0.5'	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	116
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

in - inches

ft - feet

(S) Sample Point

(H) Horizontal Point

 Removed

Table 1
Marathon Oil Corporation
Red Light 27 34 State Com 002H
Eddy County, New Mexico

Sample ID	Date	Depth (in/ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	6/6/2025	4'	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	74.1
CS-2	6/6/2025	4'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	60.7
CS-3	6/6/2025	4'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	35.9
SW-1	6/6/2025	4'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	47.3
SW-2	6/6/2025	4'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	82.3
SW-3	6/6/2025	4'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	47.5
SW-4	6/6/2025	4'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	44.8
SW-5	6/6/2025	4'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	60.1
SW-6	6/6/2025	4'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	36.4
Backfill	6/10/2025	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	61.6
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

in - inches

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

COG Production, LLC

Photograph No. 1

Facility: Red Light 27 34 State Com #002H

County: Eddy County, New Mexico

Description:

View East, area of CS-1 through CS-3.



Photograph No. 2

Facility: Red Light 27 34 State Com #002H

County: Eddy County, New Mexico

Description:

View West, area of CS-1 through CS-3.



Photograph No. 3

Facility: Red Light 27 34 State Com #002H

County: Eddy County, New Mexico

Description:

View Northwest of backfilled area.



PHOTOGRAPHIC LOG

COG Production, LLC

Photograph No. 4

Facility: Red Light 27 34 State Com
#002H

County: Eddy County, New Mexico

Description:

View Northwest of backfilled area.



APPENDIX C

CARMONA RESOURCES



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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 445389

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 445389
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	RED LIGHT 27 34 STATE COM #002H
Date Release Discovered	03/24/2025
Surface Owner	State

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 2 BBL Recovered: 2 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 11 BBL Recovered: 11 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A nipple on the bottom of the LP separator failed resulting in the release of a mixture of 16% oil and 84% produced water.

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

QUESTIONS, Page 2

Action 445389

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 445389
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

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

Initial Response

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

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

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

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

ACKNOWLEDGMENTS

Action 445389

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 445389
	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.
☒	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.
☒	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.
☒	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.
☒	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.
☒	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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 445389

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 445389
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
cswansonsteege	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	3/25/2025

MRO Spill Calculation Tool

Standing Liquid Inputs:

	Length (ft.)	Width (ft.) (Area for Displacement)	Avg. Liquid Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1	30	13	1		5.79	5.79	0.00
Rectangle Area #2	30	5	1		2.23	2.23	0.00
Rectangle Area #3	55	5	1		4.08	4.08	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Liquid Volume:					12.10	12.10	0.00

Saturated Soil Inputs:

	Length (ft.)	Width (ft.) / (SQ Ft)	Soil Type: Gravel Loam Avg. Saturated Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1	20	28	1		1.33	1.33	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
SQ FT Calc					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
Saturated Volume					1.33	1.33	0.00

	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Total Spill Volume (bbls):	13.43	13.43	0.00
Total Spill Volume (gals):	563.91	563.91	0.00

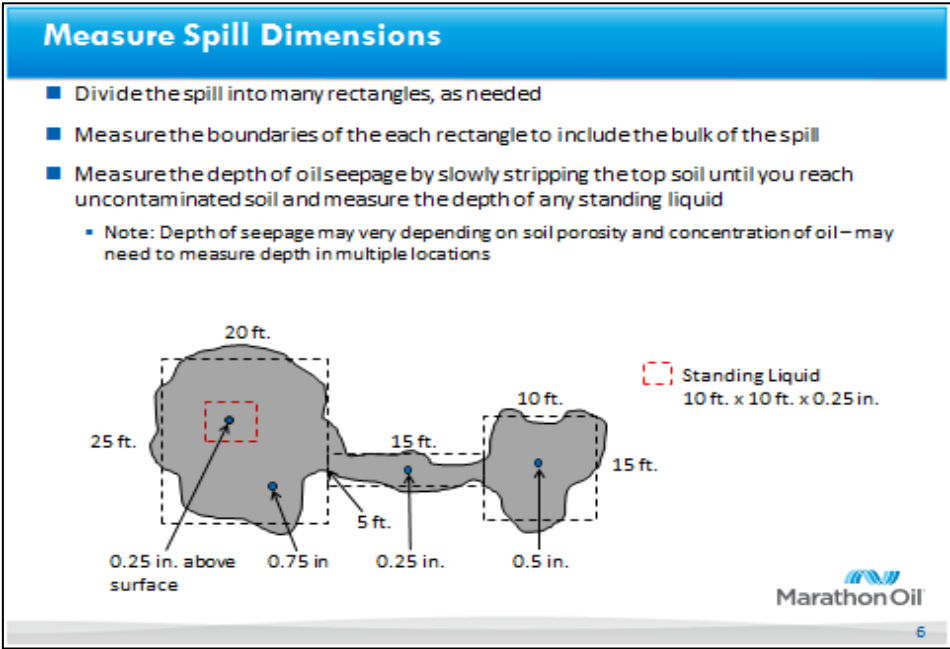
Comments:

Color Key:

Required Input Cells	Supplemental Input Cells	No Input (Calculations)	No Input
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Ground/Vegetation Overspray

Cover Type	Microns	Approximate Depth (in)
Ground		
Dull Color	10	0.00003281
Dark Color	50	0.00016404



1/8"
1/4"
1/2"
3/4"

Number of Tanks	Area of Displacement (Ft2)
12	2256

0.125
0.25
0.5
0.75

Clay Loam	0.16
Gravel or Sand	0.08
Gravel Loam	0.14
Sandy Clay Loam	0.14

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

QUESTIONS

Action 446977

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 446977
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508438017
Incident Name	NAPP2508438017 RED LIGHT 27 34 STATE COM #002H @ 30-015-43917
Incident Type	Release Other
Incident Status	Initial C-141 Received
Incident Well	[30-015-43917] RED LIGHT 27 34 STATE COM #002H

Location of Release Source

Please answer all the questions in this group.

Site Name	RED LIGHT 27 34 STATE COM #002H
Date Release Discovered	03/24/2025
Surface Owner	State

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 2 BBL Recovered: 2 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 11 BBL Recovered: 11 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A nipple on the bottom of the LP separator failed resulting in the release of a mixture of 16% oil and 84% produced water.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 446977

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 446977
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 03/31/2025
--	--

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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 446977

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 446977
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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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 446977

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 446977
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	3/31/2025

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

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

QUESTIONS

Action 470576

QUESTIONS

Operator: MARATHON OIL PERMAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 470576
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508438017
Incident Name	NAPP2508438017 RED LIGHT 27 34 STATE COM #002H @ 30-015-43917
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-43917] RED LIGHT 27 34 STATE COM #002H

Location of Release Source	
Site Name	RED LIGHT 27 34 STATE COM #002H
Date Release Discovered	03/24/2025
Surface Owner	State

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	300
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/06/2025
Time liner inspection will commence	10:00 AM
Please provide any information necessary for observers to liner inspection	Carmona Resources - 4328136823
Please provide any information necessary for navigation to liner inspection site	32.2801550, -104.286171

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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 470576

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 470576
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
cmoehring	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	6/4/2025

APPENDIX D

CARMONA RESOURCES



Nearest water well

Chevron USA

Legend

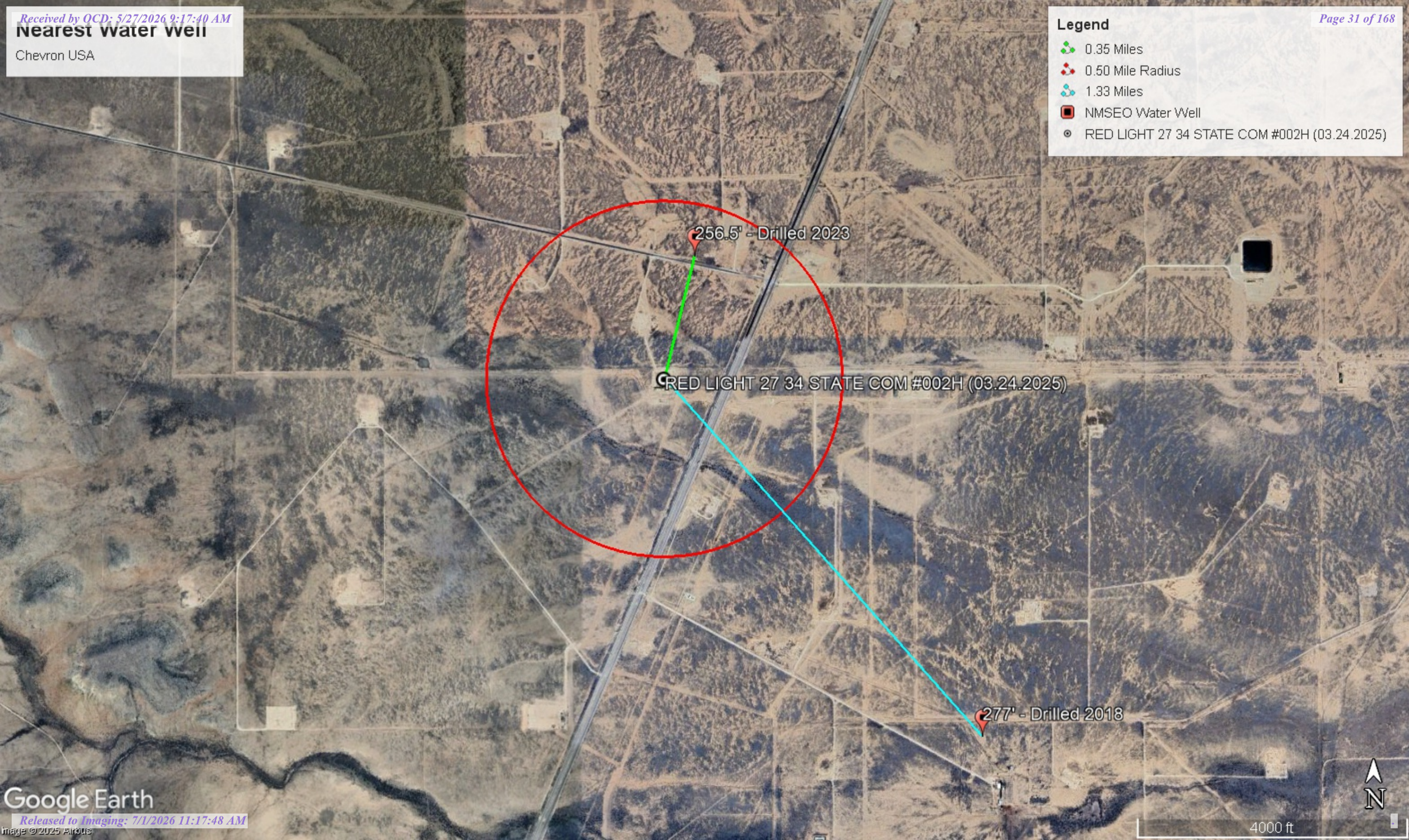
 0.35 Miles

 0.50 Mile Radius

 1.33 Miles

 NMSEO Water Well

 RED LIGHT 27 34 STATE COM #002H (03.24.2025)



Medium Karst

Chevron USA

Legend

- High
- Medium
- RED LIGHT 27 34 STATE COM #002H (03.24.2025)

RED LIGHT 27 34 STATE COM #002H (03.24.2025)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are
smallest to
largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 00535	C	CUB	ED	NE	NW	NW	27	23S	26E	567195.0	3571862.0 *	●	64	1903		
C 04685		C	ED	SW	NE	SW	22	23S	26E	567325.1	3572475.7	●	564	314	272	42
C 00341	C	CUB	ED		NW	SW	22	23S	26E	567090.0	3572566.0 *	●	647	1881		
C 00352	C	CUB	ED		NW	SW	22	23S	26E	567090.0	3572566.0 *	●	647	1867		
C 01463		C	ED	NE	NE	SW	22	23S	26E	567599.0	3572678.0 *	●	854	295	265	30
C 00367	C	CUB	ED		SW	NE	28	23S	26E	566286.0	3571353.0 *	●	1073	1909		
C 00537		C	ED		NW	SE	21	23S	26E	566277.0	3572558.0 *	●	1112	400		
C 01022		C	ED	SE	SW	NE	22	23S	26E	568005.0	3572894.0 *	●	1263	121	90	31
C 01140		C	ED	NW	SW	SW	15	23S	26E	566980.0	3573870.0 *	●	1955	325		
C 04212 POD1		CUB	ED	NW	NW	NW	35	23S	26E	568631.0	3570335.1	●	2144	275	244	31
C 04578 POD1		C	ED	SE	SE	SE	15	23S	26E	568513.2	3573633.8	●	2158	295	143	152
C 01015		C	ED	SE	SE	SE	15	23S	26E	568408.0	3573714.0 *	●	2161	318	245	73
C 03238		C	ED	SE	SE	SE	15	23S	26E	568408.0	3573714.0 *	●	2161	323	245	78
C 04212 POD2		CUB	ED	SW	NW	NW	35	23S	26E	568578.3	3570121.0	●	2275	324	255	69
C 04212 POD3		CUB	ED	NE	NW	NW	35	23S	26E	568796.3	3570273.1	●	2303	320	298	22
C 01246 AC-S		CUB	ED	SW	NW	NW	35	23S	26E	568730.2	3570098.7	●	2388	350		
C 04577 POD1		C	ED	NE	SE	SE	15	23S	26E	568511.2	3573921.7	●	2391	285	135	150
C 01724		C	ED				34	23S	26E	567726.0	3569555.0 *	●	2430	320		
C 02515		C	ED	SW	NE	SE	29	23S	26E	564971.0	3570832.0 *	●	2476	647		
C 00247		C	ED	SE	NE	SE	15	23S	26E	568406.0	3574119.0 *	●	2505	315	230	85
C 01639		C	ED	SE	NE	SE	15	23S	26E	568406.0	3574119.0 *	●	2505	300	70	230
C 04113 POD1		CUB	ED	NE	SW	NW	35	23S	26E	568836.1	3569881.0	●	2623	255	195	60
C 03950 POD1		C	ED	NE	NE	SE	15	23S	26E	568490.4	3574253.8	●	2664	308	155	153
C 03950 POD2		C	ED	SE	SE	NE	15	23S	26E	568492.9	3574269.6	●	2679	308	155	153
C 04113 POD2		CUB	ED	SE	SW	NW	35	23S	26E	568837.5	3569680.9	●	2783	289	278	11
C 04051 POD1		C	ED	NW	SW	SW	35	23S	26E	568653.2	3569112.7	●	3170	360	360	0
C 04449 POD1		C	ED	NE	NW	SE	14	23S	26E	569582.1	3574424.8	●	3456	251	230	21
C 04832 POD1		C	ED	SW	NE	SE	14	23S	26E	569780.2	3574229.7	●	3463	270		
C 02833		CUB	ED	NW	NW	NW	36	23S	26E	570258.0	3570303.0 *	●	3468	229		
C 01572		C	ED	SW	SW	SW	13	23S	26E	570245.0	3573761.0 *	●	3560	215		
C 02040		C	ED	SW	SW	SW	13	23S	26E	570245.0	3573761.0 *	●	3560	264	185	79
C 02658 POD2		C	ED	SW	SW	SW	13	23S	26E	570245.0	3573761.0 *	●	3560	252	211	41
C 04201 POD1		C	ED	SE	SE	NE	14	23S	26E	569626.5	3574546.8	●	3576	255	110	145
C 04896 POD1		C	ED	SW	NE	SE	14	23S	26E	569907.6	3574254.6	●	3576	270	210	60
C 04940 POD1		C	ED	NW	NE	SE	14	23S	26E	569796.8	3574392.4	●	3586	270		
C 04829 POD1		C	ED	SE	NE	SE	14	23S	26E	570054.5	3574189.1	●	3647	260	215	45
C 02863		CUB	ED	SE	SE	NE	30	23S	26E	563585.2	3571299.2	●	3661	129		
C 01733		C	ED	NW	SW	SW	13	23S	26E	570245.0	3573961.0 *	●	3667	247	197	50
C 01743		C	ED	NW	SW	SW	13	23S	26E	570245.0	3573961.0 *	●	3667	250	196	54

(A CLW#####
in the POD suffix
indicates (R=POD has
the POD has been
replaced been
& no longer replaced,
serves a water O=orphaned,
right file.) C=the file is
closed)

(quarters are
smallest to
largest)

												(meters)		(In feet)		
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 02442		C	ED	NW	SW	SW	13	23S	26E	570245.0	3573961.0 *		3667	276	200	76
C 03323 POD1		C	ED	SW	SE	NE	14	23S	26E	569908.7	3574479.4		3727	275	205	70
C 04348 POD1		C	ED	SW	NW	SW	13	23S	26E	570223.5	3574192.8		3784	260		
C 02832		CUB	ED	NW	NE	NW	36	23S	26E	570663.0	3570308.0 *		3828	250		
C 01832		C	ED		NW	SW	13	23S	26E	570345.0	3574268.0 *		3926	250	200	50
C 03348		C	ED	NW	SW	SW	13	23S	26E	570605.8	3573938.0		3961	240	200	40

Average Depth to Water: **206 feet**

Minimum Depth: **70 feet**

Maximum Depth: **360 feet**

Record Count: 45

UTM Filters (in meters):

Easting: 567192.94
Northing: 3571926.52
Radius: 4000

* UTM location was derived from PLSS - see Help

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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1		WELL TAG ID NO. 211D8		OSE FILE NO(S). C-4685		
	WELL OWNER NAME(S) U.S. Property				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 129 N. 10th Street, Suite 313				CITY Lincoln	STATE NE ZIP 68508	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 17	SECONDS 13.3 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Well is .2 miles down Dark Canyon Rd. from National Parks Hwy on the right side of the road.							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD 1348		NAME OF LICENSED DRILLER Clinton E Taylor		NAME OF WELL DRILLING COMPANY Taylor Water Well Service		
	DRILLING STARTED 12/19/2022	DRILLING ENDED 1/20/2023	DEPTH OF COMPLETED WELL (FT) 314	BORE HOLE DEPTH (FT) 320	DEPTH WATER FIRST ENCOUNTERED (FT) 272		
	COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 256.5	DATE STATIC MEASURED 1/25/2023	
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES – SPECIFY:						
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐	
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	0 20		9	PVC	Spline 5 3/4"	4 1/2	.292
	20 254		8 1/2	PVC	Spline 5 3/4"	4 1/2	.292
	254 314		8 1/2	PVC	Spline 5 3/4"	4 1/2	.292
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	0 20		9	20% Bentonite Grout	2 Sacks	Tremie	
	20 314		8 1/2	3/8" Pea Gravel	5 Yards	Dump	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4685	POD NO. 1	TRN NO. 738819
LOCATION 235.26E.22 323	WELL TAG ID NO. 211D8	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	2	2	Soil	Y ✓ N	
	2	12	10	Caliche	Y ✓ N	
	12	26	14	Loose Cobble+Gravel: gry, tn, brn, lmy, sme rd clay	Y ✓ N	
	26	50	24	Clay: crm, slty, sme fn gravel	Y ✓ N	
	50	62	12	Conglomerate: tn, crm, bff, lmy	Y ✓ N	
	62	80	18	Clay: lt rd, sndy-smth+stky	Y ✓ N	
	80	130	50	Clay: lt rd, sndy	Y ✓ N	
	130	140	10	Clay: rd, lt rd, sme gravel	Y ✓ N	
	140	180	40	Conglomerate: yel brn, tn, off wht, pnk, calc, sme sndy	Y ✓ N	
	180	200	20	Clay: lt rd, sndy	Y ✓ N	
	200	228	28	Conglomerate: pnk, bff, lt brn, sndy, calc	Y ✓ N	
	228	234	6	Clay: crm, sndy	Y ✓ N	
	234	249	15	Conglomerate: gry-lt brn, calc	Y ✓ N	
	249	272	23	Clay: lt rd, smth	Y ✓ N	
	272	290	18	Conglomerate: yel brn, brn, tn, lmy, sme thin layers of lt rd clay	✓ Y N	3.00
	290	310	20	Sand+Gravel: clr, ambr, vfn grn, rnd-sb rnd, lsly consl, fn gravel	✓ Y N	3.00
	310	320	10	Clay: rd, sndy-smth	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
☒ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					6	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Drilled 4 1/2" hole to 72'. Reamed 9" to 20' and then drilled 6" hole to 320'. Test pumped well with no casing to confirm water. Reamed 6" hole to 8 1/2" to 320'. Ran casing and completed well. Test pumped again. Pulled pump and acidized well. Ran pump back in well. There was no improvement in production. Pulled pump and ran smaller pump with 3 Gpm Dole valve. Installed water meter. Water tested 1240 Ppm Tds and pumped clear.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME CE Taylor DATE					

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4685	POD NO. 1	TRN NO. 738819
LOCATION 235.266.22 3 23	WELL TAG ID NO. 211 D8	PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER'S OFFICE
ROSWELL, NEW MEXICO
2019 APR 17 AM 10:12

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD - 1		WELL TAG ID NO.		OSE FILE NO(S) C-04212			
	WELL OWNER NAME(S) JERRY HACKY & BETTY HACKY - ART MASON				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 1512 ADAMS AVENUE				CITY ROSWELL	STATE NM	ZIP 88203	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32		MINUTES 16	SECONDS 35.56	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW 1/4 NW 1/4 NW 1/4 SEC 35 Twp 23S R-26E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1400		NAME OF LICENSED DRILLER MARK HAMMOND			NAME OF WELL DRILLING COMPANY SOUTH EAST DRILLING		
	DRILLING STARTED 12-25-2018	DRILLING ENDED 12-30-2018	DEPTH OF COMPLETED WELL (FT) 275		BORE HOLE DEPTH (FT) 275	DEPTH WATER FIRST ENCOUNTERED (FT) 244		
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT)		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☒ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	-18	195	15	10 3/4 STEEL	W=1D	10 1/2	410 LB	0
	195	275	15	10 3/4 STEEL	W=1D	10 1/2	40 LB	3/8
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	15	Ben to wit & cement	1 1/2 YARD	HAND		
	20	275	15	3/4 PER GRAVEL	4 3/4 YARD	HAND		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 05/30/17)

FILE NO. C-4212	POD NO. 1	TRN NO. 1121862
LOCATION 235.266.35.111		WELL TAG ID NO.
		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

Released to Imaging: 7/1/2026 11:17:48 AM



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

4/16/2019

Office of the State Engineer
District 2- Roswell
1900 W 2nd St
Roswell, NM 88201

Hand Delivered to the Office of the State Engineer District 2

RE: Well Records for C-4212 POD 1-3

To whom it may concern:

Enclosed please find in duplicate well records for C-4212 POD 1-3. Exploratory well C-4212 POD 4 has not been drilled and will not be prior to permit expiration. Furthermore, Atkins Engineering Associates, Inc. field checked the locations of the exploratory wells with a GNSS receiver and got permissions to edit the signed well records (see attached email with driller).

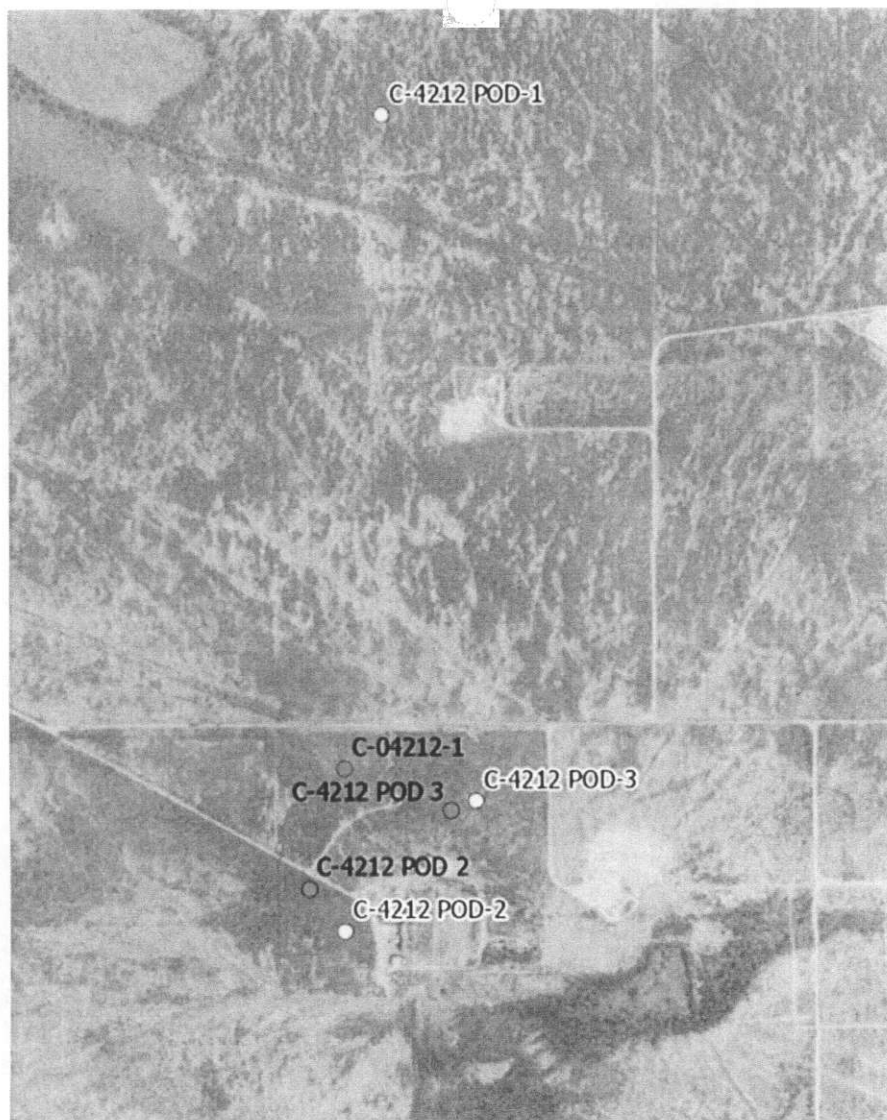
If you have any questions, please do not hesitate to contact me at chris@atkinseng.com or 575.624.2420.
Sincerely,

A handwritten signature in black ink, appearing to read "Chris Cortez". The signature is fluid and cursive.

Christopher Cortez

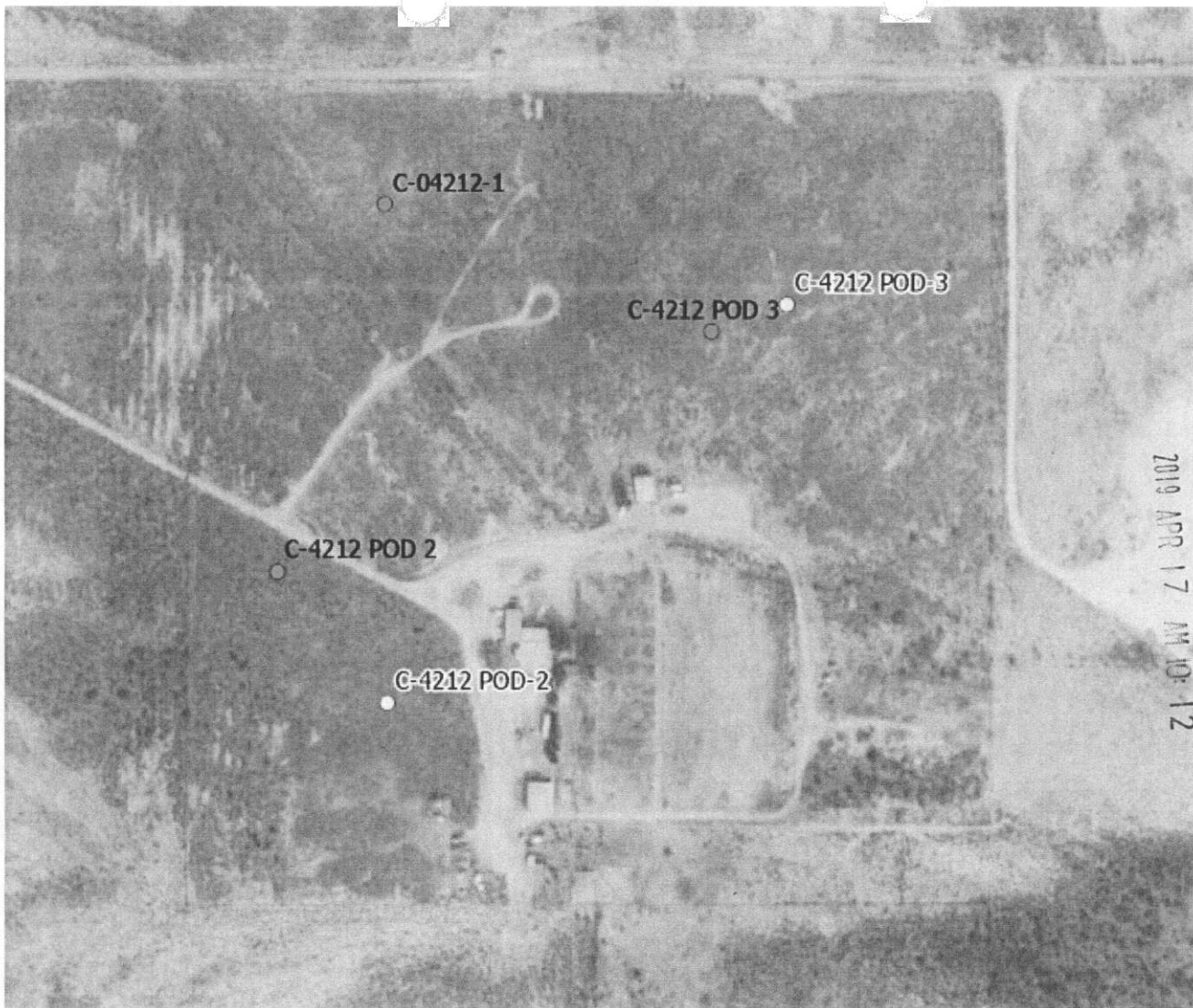
Enclosures: As noted above

STATE ENGINEER OFFICE
DISTRICT 2
ROSSELL, NM 88201
2019 APR 17 11:00 AM



2019 APR 17 AM 10:12

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO



Do we have your permission to modify the coordinates to match ours?

Please reply to email.

We will modify and submit to D2 OSE and email you a scan for your records

Call with any questions,

Thanks,

Chris Cortez

| 575.624.2420 x 203 | 575.914.0174 mobile

Atkins Engineering Associates, Inc. | 2904 W 2nd St, Roswell, NM 88201

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2019 APR 17 AM 10:12

Christopher Cortez

From: Legeta Hammond <legeta.hammond@yahoo.com>
Sent: Tuesday, April 16, 2019 11:43 AM
To: Christopher Cortez
Subject: Re: Well Record Coordinate Modification

Hello,
Yes, you have my permission.
Mark Hammond

On Tuesday, April 16, 2019, 11:29:32 AM MDT, Christopher Cortez <chris@atkinseng.com> wrote:

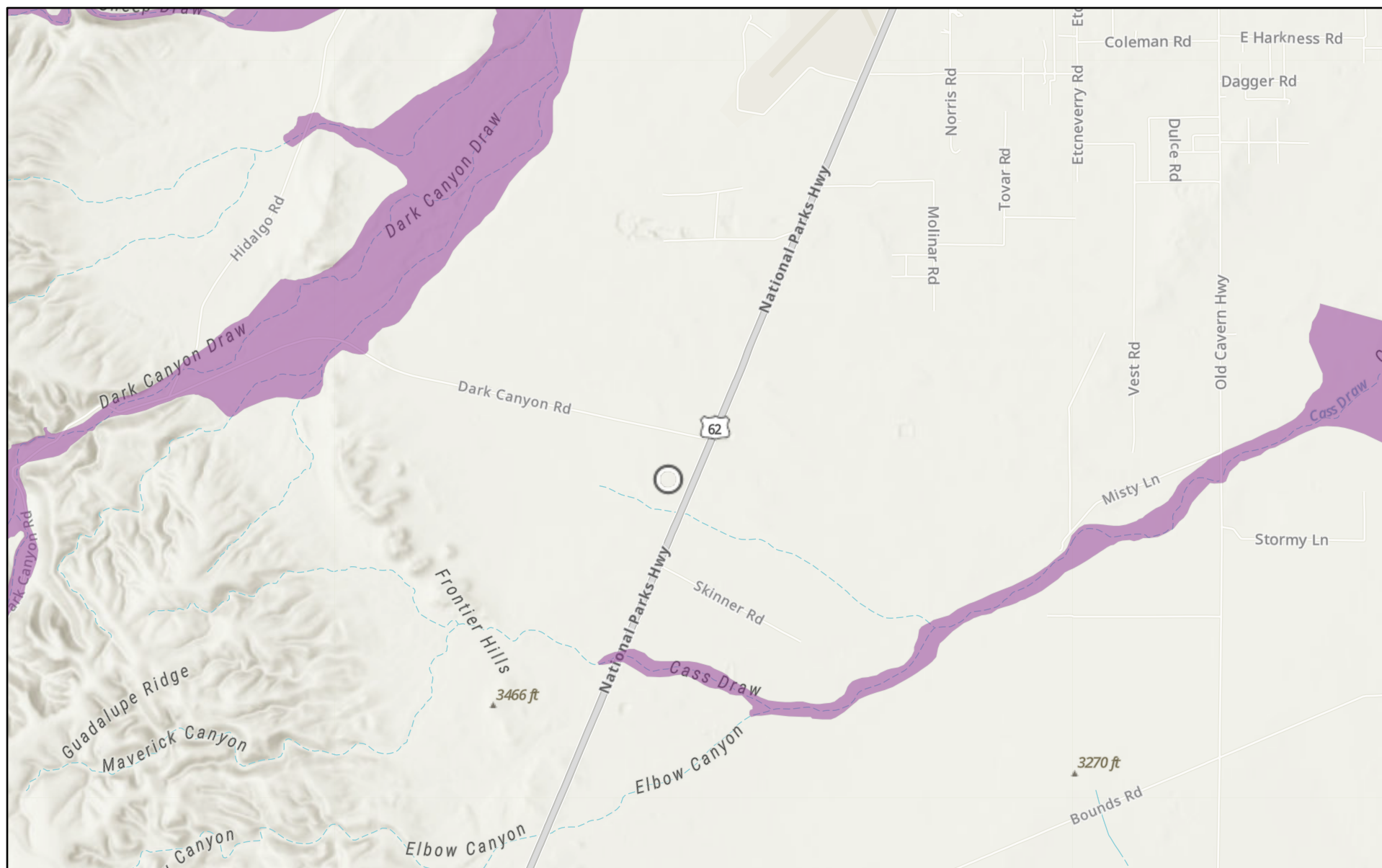
Mr. Hammond,

Atkins Engineering Associates field checked the exploratory wells you drilled for George Harvick (Applicant Jerry and Betty Lackey) The maps below shows the coordinates on the well record in yellow with our coordinates in green.

2019 APR 17 AM 10:12

STATE ENGINEERING OFFICE
ROSWELL, NEW MEXICO

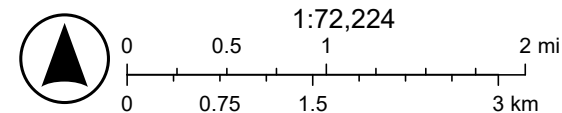
RED LIGHT 27 34 STATE COM #002H (03.24.2025)



3/26/2025

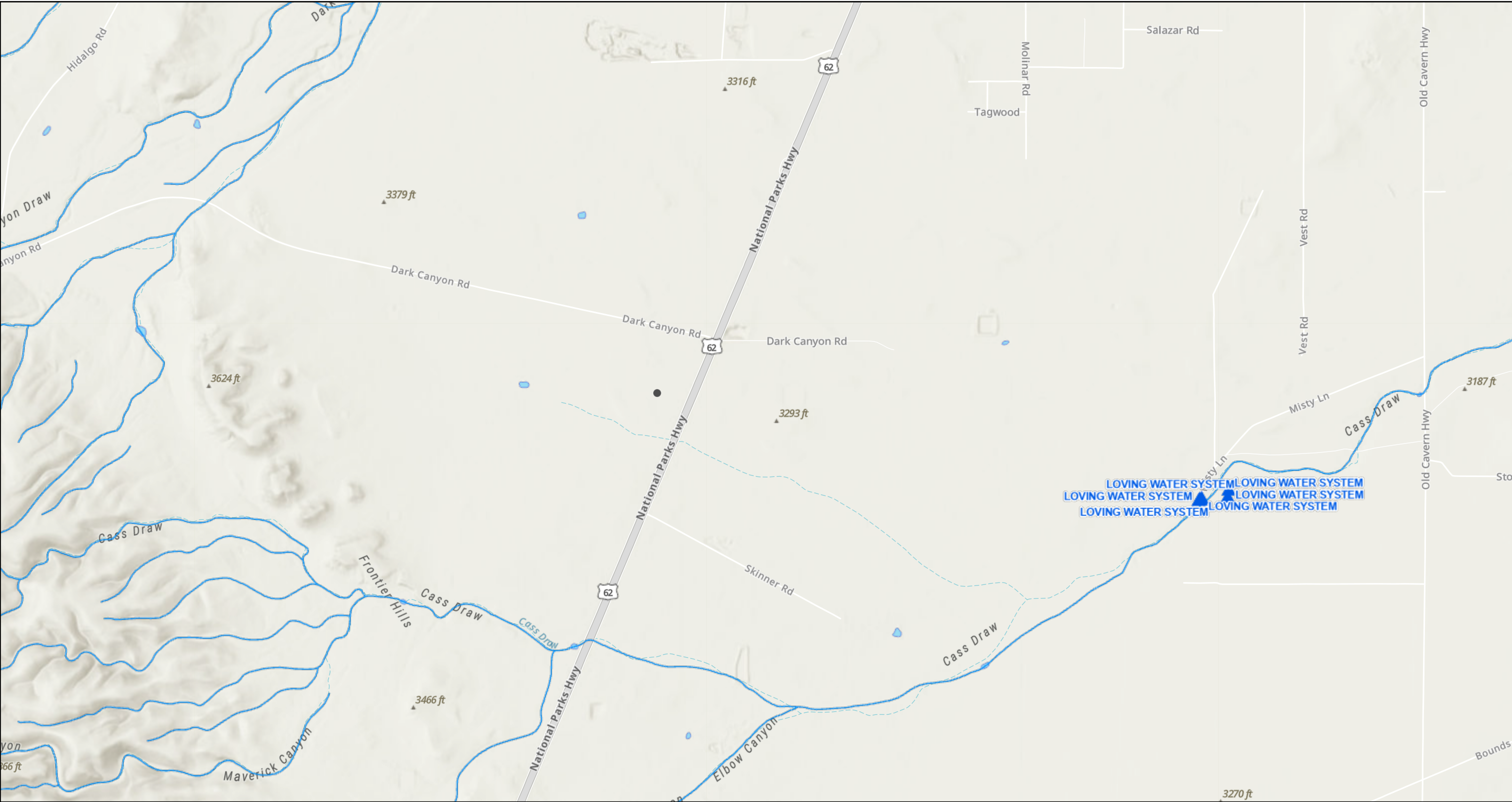
USA Flood Hazard Areas

World_Hillshade

 1% Annual Chance Flood Hazard

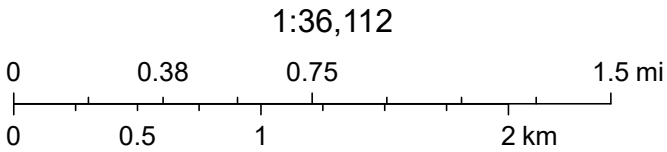
Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User

RED LIGHT 27 34 STATE COM #002H (03.24.2025)



3/26/2025, 3:43:01 PM

-  OSW Water Bodies
-  OSE Streams
-  NMED Drinking Water Systems



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

APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/28/2025 12:20:23 PM

JOB DESCRIPTION

Red Light 27-34 State Com 002H
Eddy County, New Mexico

JOB NUMBER

880-57199-1

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
4/28/2025 12:20:23 PM

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

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Laboratory Job ID: 880-57199-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Red Light 27-34 State Com 002H

Job ID: 880-57199-1

Job ID: 880-57199-1

Eurofins Midland

Job Narrative 880-57199-1

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

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

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

Receipt

The samples were received on 4/22/2025 4:25 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 -1.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-57199-1), H-2 (0-0.5') (880-57199-2) and H-3 (0-0.5') (880-57199-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-108453 and analytical batch 880-108516 was outside the upper control 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: Surrogate recovery for the following samples were outside control limits: (LCS 880-108435/2-A), (LCSD 880-108435/3-A) and (880-57199-A-1-C MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57199-1

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/22/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/23/25 13:58	04/24/25 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 13:58	04/24/25 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/23/25 13:58	04/24/25 12:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/23/25 13:58	04/24/25 12:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/24/25 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/27/25 05:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:02	04/27/25 05:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 12:02	04/27/25 05:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:02	04/27/25 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	04/23/25 12:02	04/27/25 05:07	1
o-Terphenyl	112		70 - 130	04/23/25 12:02	04/27/25 05:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.6		10.0		mg/Kg			04/24/25 16:08	1

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

Lab Sample ID: 880-57199-2

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/22/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/23/25 13:58	04/24/25 12:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/23/25 13:58	04/24/25 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	04/23/25 13:58	04/24/25 12:49	1
1,4-Difluorobenzene (Surr)	112		70 - 130	04/23/25 13:58	04/24/25 12:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57199-2

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/22/25 16:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/24/25 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/27/25 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/23/25 12:02	04/27/25 05:51	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/23/25 12:02	04/27/25 05:51	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/23/25 12:02	04/27/25 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/23/25 12:02	04/27/25 05:51	1
o-Terphenyl	119		70 - 130				04/23/25 12:02	04/27/25 05:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		10.0		mg/Kg			04/24/25 16:15	1

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

Lab Sample ID: 880-57199-3

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/22/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:58	04/24/25 13:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:58	04/24/25 13:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:58	04/24/25 13:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 13:58	04/24/25 13:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:58	04/24/25 13:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 13:58	04/24/25 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				04/23/25 13:58	04/24/25 13:09	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/23/25 13:58	04/24/25 13:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/25 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			04/27/25 06:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		04/23/25 12:02	04/27/25 06:06	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		04/23/25 12:02	04/27/25 06:06	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

Client Sample ID: H-3 (0-0.5')
Date Collected: 04/17/25 00:00
Date Received: 04/22/25 16:25

Lab Sample ID: 880-57199-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/23/25 12:02	04/27/25 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				04/23/25 12:02	04/27/25 06:06	1
o-Terphenyl	124		70 - 130				04/23/25 12:02	04/27/25 06:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		9.94		mg/Kg			04/24/25 16:22	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-57199-1	H-1 (0-0.5')	99	101
880-57199-1 MS	H-1 (0-0.5')	103	107
880-57199-1 MSD	H-1 (0-0.5')	103	94
880-57199-2	H-2 (0-0.5')	124	112
880-57199-3	H-3 (0-0.5')	126	107
LCS 880-108453/1-A	Lab Control Sample	110	106
LCSD 880-108453/2-A	Lab Control Sample Dup	111	98
MB 880-108453/5-A	Method Blank	164 S1+	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-57199-1	H-1 (0-0.5')	106	112
880-57199-1 MS	H-1 (0-0.5')	129	127
880-57199-1 MSD	H-1 (0-0.5')	131 S1+	129
880-57199-2	H-2 (0-0.5')	113	119
880-57199-3	H-3 (0-0.5')	118	124
LCS 880-108435/2-A	Lab Control Sample	134 S1+	126
LCSD 880-108435/3-A	Lab Control Sample Dup	131 S1+	127
MB 880-108435/1-A	Method Blank	126	125
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108453/5-A

Matrix: Solid

Analysis Batch: 108516

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/23/25 13:58	04/24/25 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:58	04/24/25 12:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 13:58	04/24/25 12:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130	04/23/25 13:58	04/24/25 12:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/23/25 13:58	04/24/25 12:00	1

Lab Sample ID: LCS 880-108453/1-A

Matrix: Solid

Analysis Batch: 108516

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08198		mg/Kg		82	70 - 130
Toluene	0.100	0.07283		mg/Kg		73	70 - 130
Ethylbenzene	0.100	0.08304		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1788		mg/Kg		89	70 - 130
o-Xylene	0.100	0.09203		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-108453/2-A

Matrix: Solid

Analysis Batch: 108516

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108453

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08622		mg/Kg		86	70 - 130	5	35
Toluene	0.100	0.07542		mg/Kg		75	70 - 130	3	35
Ethylbenzene	0.100	0.09225		mg/Kg		92	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1881		mg/Kg		94	70 - 130	5	35
o-Xylene	0.100	0.09416		mg/Kg		94	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-57199-1 MS

Matrix: Solid

Analysis Batch: 108516

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

Prep Type: Total/NA

Prep Batch: 108453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09016		mg/Kg		90	70 - 130
Toluene	<0.00200	U	0.100	0.07807		mg/Kg		78	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57199-1 MS

Matrix: Solid

Analysis Batch: 108516

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

Prep Type: Total/NA

Prep Batch: 108453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08392		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1772		mg/Kg		89	70 - 130
o-Xylene	<0.00200	U	0.100	0.08811		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-57199-1 MSD

Matrix: Solid

Analysis Batch: 108516

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

Prep Type: Total/NA

Prep Batch: 108453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08477		mg/Kg		85	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.07638		mg/Kg		76	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.08509		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1679		mg/Kg		84	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.08379		mg/Kg		84	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-108435/1-A

Matrix: Solid

Analysis Batch: 108761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:01	04/27/25 04:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 12:01	04/27/25 04:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:01	04/27/25 04:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	04/23/25 12:01	04/27/25 04:23	1
o-Terphenyl	125		70 - 130	04/23/25 12:01	04/27/25 04:23	1

Lab Sample ID: LCS 880-108435/2-A

Matrix: Solid

Analysis Batch: 108761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1298		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1258		mg/Kg		126	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-108435/2-A

Matrix: Solid

Analysis Batch: 108761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108435

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-108435/3-A

Matrix: Solid

Analysis Batch: 108761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108435

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1263		mg/Kg		126	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1243		mg/Kg		124	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: 880-57199-1 MS

Matrix: Solid

Analysis Batch: 108761

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

Prep Type: Total/NA

Prep Batch: 108435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	960.0		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1037		mg/Kg		104	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: 880-57199-1 MSD

Matrix: Solid

Analysis Batch: 108761

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

Prep Type: Total/NA

Prep Batch: 108435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	977.0		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1091		mg/Kg		109	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	129		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108464/1-A

Matrix: Solid

Analysis Batch: 108475

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/24/25 12:54	1

Lab Sample ID: LCS 880-108464/2-A

Matrix: Solid

Analysis Batch: 108475

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.9		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-108464/3-A

Matrix: Solid

Analysis Batch: 108475

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.2		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-57196-A-9-E MS

Matrix: Solid

Analysis Batch: 108475

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	106		249	363.6		mg/Kg		104	90 - 110

Lab Sample ID: 880-57196-A-9-F MSD

Matrix: Solid

Analysis Batch: 108475

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	106		249	358.0		mg/Kg		101	90 - 110	2	20

QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 108453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57199-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-57199-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-57199-3	H-3 (0-0.5')	Total/NA	Solid	5035	
MB 880-108453/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108453/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108453/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57199-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-57199-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 108516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57199-1	H-1 (0-0.5')	Total/NA	Solid	8021B	108453
880-57199-2	H-2 (0-0.5')	Total/NA	Solid	8021B	108453
880-57199-3	H-3 (0-0.5')	Total/NA	Solid	8021B	108453
MB 880-108453/5-A	Method Blank	Total/NA	Solid	8021B	108453
LCS 880-108453/1-A	Lab Control Sample	Total/NA	Solid	8021B	108453
LCSD 880-108453/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108453
880-57199-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	108453
880-57199-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	108453

Analysis Batch: 108591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57199-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57199-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57199-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57199-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57199-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57199-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-108435/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108435/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108435/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57199-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57199-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 108761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57199-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	108435
880-57199-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	108435
880-57199-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	108435
MB 880-108435/1-A	Method Blank	Total/NA	Solid	8015B NM	108435
LCS 880-108435/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108435
LCSD 880-108435/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108435
880-57199-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	108435
880-57199-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	108435

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 108864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57199-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-57199-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-57199-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 108464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57199-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-57199-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-57199-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-108464/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108464/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108464/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57196-A-9-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-57196-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 108475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57199-1	H-1 (0-0.5')	Soluble	Solid	300.0	108464
880-57199-2	H-2 (0-0.5')	Soluble	Solid	300.0	108464
880-57199-3	H-3 (0-0.5')	Soluble	Solid	300.0	108464
MB 880-108464/1-A	Method Blank	Soluble	Solid	300.0	108464
LCS 880-108464/2-A	Lab Control Sample	Soluble	Solid	300.0	108464
LCSD 880-108464/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108464
880-57196-A-9-E MS	Matrix Spike	Soluble	Solid	300.0	108464
880-57196-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	108464

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57199-1

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/22/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108453	04/23/25 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108516	04/24/25 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108591	04/24/25 12:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			108864	04/27/25 05:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108435	04/23/25 12:02	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108761	04/27/25 05:07	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	108464	04/23/25 15:20	SI	EET MID
Soluble	Analysis	300.0		1			108475	04/24/25 16:08	CH	EET MID

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

Lab Sample ID: 880-57199-2

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/22/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	108453	04/23/25 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108516	04/24/25 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108591	04/24/25 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			108864	04/27/25 05:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108435	04/23/25 12:02	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108761	04/27/25 05:51	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	108464	04/23/25 15:20	SI	EET MID
Soluble	Analysis	300.0		1			108475	04/24/25 16:15	CH	EET MID

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

Lab Sample ID: 880-57199-3

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/22/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108453	04/23/25 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108516	04/24/25 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108591	04/24/25 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			108864	04/27/25 06:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	108435	04/23/25 12:02	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108761	04/27/25 06:06	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108464	04/23/25 15:20	SI	EET MID
Soluble	Analysis	300.0		1			108475	04/24/25 16:22	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
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: Red Light 27-34 State Com 002H

Job ID: 880-57199-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57199-1	H-1 (0-0.5')	Solid	04/17/25 00:00	04/22/25 16:25
880-57199-2	H-2 (0-0.5')	Solid	04/17/25 00:00	04/22/25 16:25
880-57199-3	H-3 (0-0.5')	Solid	04/17/25 00:00	04/22/25 16:25

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

Chain of Custody



880-57199 Chain of Custody

Page 1 of 1

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Manager:	Conner Moehring		Bill to: (if different)	Cody Swanson Stge
Company Name:	Carmona Resources		Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 500		Address:	990 Town and Country Blvd
City, State ZIP:	Midland, TX 79701		City, State ZIP:	Houston, TX 77024
Phone:	432-813-6823		Email:	swansonste@marathonoil.com

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Frank B...</i>	4/22/25 6:16:25	<i>[Signature]</i>	4/22/25 16:25

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-57199-1

SDG Number: Eddy County, New Mexico

Login Number: 57199

List Number: 1

List Source: Eurofins Midland

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/30/2025 12:29:17 PM

JOB DESCRIPTION

Red Light 27-34 State Com 002H
Eddy County, New Mexico

JOB NUMBER

880-57202-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

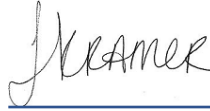
Eurofins Midland

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
4/30/2025 12:29:17 PM

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

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Laboratory Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Red Light 27-34 State Com 002H

Job ID: 880-57202-1

Job ID: 880-57202-1

Eurofins Midland

Job Narrative 880-57202-1

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

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

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

Receipt

The samples were received on 4/23/2025 4:25 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 -1.4°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108451 and analytical batch 880-108906 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-108906 recovered under the lower control limit for Toluene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

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 surrogate recovery for the blank associated with preparation batch 880-108436 and analytical batch 880-108764 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108436 and analytical batch 880-108764 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: (LCSD 880-108436/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-0.5') (880-57202-1), S-1 (1') (880-57202-2), S-1 (1.5') (880-57202-3), S-1 (2') (880-57202-4), S-1 (3') (880-57202-5), S-2 (0-0.5') (880-57202-6), (880-57200-A-4-A), (880-57200-A-4-B MS) and (880-57200-A-4-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-108437/2-A) and (LCSD 880-108437/3-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

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57202-1

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:36	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:36	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:36	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		04/23/25 17:00	04/29/25 22:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:36	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		04/23/25 17:00	04/29/25 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/23/25 17:00	04/29/25 22:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/23/25 17:00	04/29/25 22:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/29/25 22:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/27/25 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/23/25 12:06	04/27/25 12:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/23/25 12:06	04/27/25 12:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 12:06	04/27/25 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	04/23/25 12:06	04/27/25 12:47	1
o-Terphenyl	160	S1+	70 - 130	04/23/25 12:06	04/27/25 12:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		10.1		mg/Kg			04/24/25 19:30	1

Client Sample ID: S-1 (1')

Lab Sample ID: 880-57202-2

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/23/25 17:00	04/29/25 22:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/23/25 17:00	04/29/25 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/23/25 17:00	04/29/25 22:57	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/23/25 17:00	04/29/25 22:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1')

Lab Sample ID: 880-57202-2

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/29/25 22:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.1		49.9		mg/Kg			04/27/25 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/23/25 12:06	04/27/25 13:03	1
Diesel Range Organics (Over C10-C28)	53.1		49.9		mg/Kg		04/23/25 12:06	04/27/25 13:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 12:06	04/27/25 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130				04/23/25 12:06	04/27/25 13:03	1
o-Terphenyl	159	S1+	70 - 130				04/23/25 12:06	04/27/25 13:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		10.0		mg/Kg			04/24/25 19:47	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-57202-3

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/29/25 23:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/29/25 23:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/29/25 23:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/29/25 23:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/29/25 23:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/29/25 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/23/25 17:00	04/29/25 23:17	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/23/25 17:00	04/29/25 23:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/29/25 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/27/25 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:06	04/27/25 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 12:06	04/27/25 13:19	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-57202-3

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:06	04/27/25 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				04/23/25 12:06	04/27/25 13:19	1
o-Terphenyl	157	S1+	70 - 130				04/23/25 12:06	04/27/25 13:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		10.1		mg/Kg			04/24/25 19:53	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-57202-4

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/29/25 23:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/29/25 23:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/29/25 23:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/29/25 23:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/29/25 23:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/29/25 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/23/25 17:00	04/29/25 23:38	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/23/25 17:00	04/29/25 23:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/29/25 23:38	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			04/27/25 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/23/25 12:06	04/27/25 13:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/23/25 12:06	04/27/25 13:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/23/25 12:06	04/27/25 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130				04/23/25 12:06	04/27/25 13:36	1
o-Terphenyl	155	S1+	70 - 130				04/23/25 12:06	04/27/25 13:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		10.0		mg/Kg			04/24/25 19:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (3')

Lab Sample ID: 880-57202-5

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 23:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 23:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 23:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/29/25 23:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 23:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/29/25 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/23/25 17:00	04/29/25 23:58	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/23/25 17:00	04/29/25 23:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/29/25 23:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	161		50.1		mg/Kg			04/27/25 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/23/25 12:06	04/27/25 13:52	1
Diesel Range Organics (Over C10-C28)	161		50.1		mg/Kg		04/23/25 12:06	04/27/25 13:52	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/23/25 12:06	04/27/25 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	04/23/25 12:06	04/27/25 13:52	1
o-Terphenyl	159	S1+	70 - 130	04/23/25 12:06	04/27/25 13:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		9.96		mg/Kg			04/24/25 20:04	1

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

Lab Sample ID: 880-57202-6

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/23/25 17:00	04/30/25 00:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/23/25 17:00	04/30/25 00:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/23/25 17:00	04/30/25 00:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/23/25 17:00	04/30/25 00:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/23/25 17:00	04/30/25 00:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/23/25 17:00	04/30/25 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/23/25 17:00	04/30/25 00:19	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/23/25 17:00	04/30/25 00:19	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57202-6

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/30/25 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/27/25 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/23/25 12:06	04/27/25 14:09	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/23/25 12:06	04/27/25 14:09	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/23/25 12:06	04/27/25 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				04/23/25 12:06	04/27/25 14:09	1
o-Terphenyl	157	S1+	70 - 130				04/23/25 12:06	04/27/25 14:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.0		10.1		mg/Kg			04/24/25 20:21	1

Client Sample ID: S-2 (1')

Lab Sample ID: 880-57202-7

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 00:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 00:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 00:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/23/25 17:00	04/30/25 00:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 00:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/23/25 17:00	04/30/25 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/23/25 17:00	04/30/25 00:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/23/25 17:00	04/30/25 00:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/30/25 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.0		50.1		mg/Kg			04/28/25 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/23/25 12:10	04/28/25 19:59	1
Diesel Range Organics (Over C10-C28)	57.0		50.1		mg/Kg		04/23/25 12:10	04/28/25 19:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1')

Lab Sample ID: 880-57202-7

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/23/25 12:10	04/28/25 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/23/25 12:10	04/28/25 19:59	1
o-Terphenyl	113		70 - 130				04/23/25 12:10	04/28/25 19:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		10.1		mg/Kg			04/24/25 20:27	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-57202-8

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 01:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 01:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 01:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 01:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 01:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/23/25 17:00	04/30/25 01:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/23/25 17:00	04/30/25 01:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/30/25 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/28/25 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 20:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 20:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				04/23/25 12:10	04/28/25 20:43	1
o-Terphenyl	120		70 - 130				04/23/25 12:10	04/28/25 20:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	261		10.0		mg/Kg			04/24/25 20:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (2')

Lab Sample ID: 880-57202-9

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/23/25 17:00	04/30/25 01:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/23/25 17:00	04/30/25 01:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/23/25 17:00	04/30/25 01:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/23/25 17:00	04/30/25 01:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/23/25 17:00	04/30/25 01:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/23/25 17:00	04/30/25 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/23/25 17:00	04/30/25 01:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/23/25 17:00	04/30/25 01:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/30/25 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.9		49.9		mg/Kg			04/28/25 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/23/25 12:10	04/28/25 20:58	1
Diesel Range Organics (Over C10-C28)	58.9		49.9		mg/Kg		04/23/25 12:10	04/28/25 20:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 12:10	04/28/25 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	04/23/25 12:10	04/28/25 20:58	1
o-Terphenyl	122		70 - 130	04/23/25 12:10	04/28/25 20:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		10.1		mg/Kg			04/24/25 20:38	1

Client Sample ID: S-2 (3')

Lab Sample ID: 880-57202-10

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 01:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 01:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 01:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 01:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 01:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/23/25 17:00	04/30/25 01:41	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/23/25 17:00	04/30/25 01:41	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3')

Lab Sample ID: 880-57202-10

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/30/25 01:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/28/25 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/23/25 12:10	04/28/25 21:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/23/25 12:10	04/28/25 21:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/23/25 12:10	04/28/25 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				04/23/25 12:10	04/28/25 21:13	1
o-Terphenyl	118		70 - 130				04/23/25 12:10	04/28/25 21:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		10.0		mg/Kg			04/24/25 20:44	1

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

Lab Sample ID: 880-57202-11

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 03:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 03:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 03:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/30/25 03:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 03:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/30/25 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/23/25 17:00	04/30/25 03:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/23/25 17:00	04/30/25 03:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/30/25 03:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			04/28/25 21:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		04/23/25 12:10	04/28/25 21:28	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		04/23/25 12:10	04/28/25 21:28	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57202-11

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/23/25 12:10	04/28/25 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/23/25 12:10	04/28/25 21:28	1
o-Terphenyl	111		70 - 130				04/23/25 12:10	04/28/25 21:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		10.1		mg/Kg			04/24/25 20:49	1

Client Sample ID: S-3 (1')

Lab Sample ID: 880-57202-12

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 03:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 03:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 03:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/23/25 17:00	04/30/25 03:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 03:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/23/25 17:00	04/30/25 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/23/25 17:00	04/30/25 03:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130				04/23/25 17:00	04/30/25 03:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/30/25 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.4		50.0		mg/Kg			04/28/25 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 21:43	1
Diesel Range Organics (Over C10-C28)	63.4		50.0		mg/Kg		04/23/25 12:10	04/28/25 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/23/25 12:10	04/28/25 21:43	1
o-Terphenyl	121		70 - 130				04/23/25 12:10	04/28/25 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		10.0		mg/Kg			04/24/25 21:06	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-57202-13

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 03:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 03:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 03:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 03:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 03:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/23/25 17:00	04/30/25 03:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/23/25 17:00	04/30/25 03:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/30/25 03:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/28/25 21:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 21:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 21:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	04/23/25 12:10	04/28/25 21:59	1
o-Terphenyl	122		70 - 130	04/23/25 12:10	04/28/25 21:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		10.0		mg/Kg			04/24/25 21:12	1

Client Sample ID: S-3 (2')

Lab Sample ID: 880-57202-14

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 04:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 04:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 04:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 04:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 04:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/23/25 17:00	04/30/25 04:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/23/25 17:00	04/30/25 04:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2')

Lab Sample ID: 880-57202-14

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/30/25 04:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/28/25 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/23/25 12:10	04/28/25 22:14	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/23/25 12:10	04/28/25 22:14	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/23/25 12:10	04/28/25 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/23/25 12:10	04/28/25 22:14	1
o-Terphenyl	117		70 - 130				04/23/25 12:10	04/28/25 22:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		9.94		mg/Kg			04/24/25 21:29	1

Client Sample ID: S-3 (3')

Lab Sample ID: 880-57202-15

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 04:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 04:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 04:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/30/25 04:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 04:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/30/25 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/23/25 17:00	04/30/25 04:25	1
1,4-Difluorobenzene (Surr)	91		70 - 130				04/23/25 17:00	04/30/25 04:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/30/25 04:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			04/28/25 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		04/23/25 12:10	04/28/25 22:29	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		04/23/25 12:10	04/28/25 22:29	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')

Lab Sample ID: 880-57202-15

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/23/25 12:10	04/28/25 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/23/25 12:10	04/28/25 22:29	1
o-Terphenyl	113		70 - 130				04/23/25 12:10	04/28/25 22:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		10.1		mg/Kg			04/24/25 21:34	1

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

Lab Sample ID: 880-57202-16

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/23/25 17:00	04/30/25 04:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/23/25 17:00	04/30/25 04:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/23/25 17:00	04/30/25 04:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/23/25 17:00	04/30/25 04:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/23/25 17:00	04/30/25 04:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/23/25 17:00	04/30/25 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/23/25 17:00	04/30/25 04:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/23/25 17:00	04/30/25 04:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/30/25 04:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/28/25 22:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/23/25 12:10	04/28/25 22:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/23/25 12:10	04/28/25 22:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 12:10	04/28/25 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/23/25 12:10	04/28/25 22:44	1
o-Terphenyl	122		70 - 130				04/23/25 12:10	04/28/25 22:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.2		10.1		mg/Kg			04/24/25 21:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (1')

Lab Sample ID: 880-57202-17

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 05:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 05:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 05:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/30/25 05:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 05:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/30/25 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/23/25 17:00	04/30/25 05:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/23/25 17:00	04/30/25 05:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/30/25 05:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.6		49.9		mg/Kg			04/28/25 23:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/23/25 12:10	04/28/25 23:13	1
Diesel Range Organics (Over C10-C28)	50.6		49.9		mg/Kg		04/23/25 12:10	04/28/25 23:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 12:10	04/28/25 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	04/23/25 12:10	04/28/25 23:13	1
o-Terphenyl	118		70 - 130	04/23/25 12:10	04/28/25 23:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		9.94		mg/Kg			04/24/25 21:46	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-57202-18

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 05:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 05:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 05:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 05:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 05:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/23/25 17:00	04/30/25 05:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/23/25 17:00	04/30/25 05:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-57202-18

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/30/25 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/28/25 23:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 23:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 23:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				04/23/25 12:10	04/28/25 23:28	1
o-Terphenyl	118		70 - 130				04/23/25 12:10	04/28/25 23:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	318		10.1		mg/Kg			04/24/25 21:51	1

Client Sample ID: S-4 (2')

Lab Sample ID: 880-57202-19

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 05:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 05:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 05:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 05:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 17:00	04/30/25 05:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 17:00	04/30/25 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/23/25 17:00	04/30/25 05:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/23/25 17:00	04/30/25 05:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/30/25 05:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/28/25 23:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/23/25 12:10	04/28/25 23:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/23/25 12:10	04/28/25 23:42	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (2')

Lab Sample ID: 880-57202-19

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/23/25 12:10	04/28/25 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/23/25 12:10	04/28/25 23:42	1
o-Terphenyl	120		70 - 130				04/23/25 12:10	04/28/25 23:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		10.1		mg/Kg			04/24/25 21:57	1

Client Sample ID: S-4 (3')

Lab Sample ID: 880-57202-20

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 06:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 06:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 06:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/30/25 06:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/30/25 06:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 17:00	04/30/25 06:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/23/25 17:00	04/30/25 06:07	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/23/25 17:00	04/30/25 06:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/30/25 06:07	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			04/28/25 23:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/23/25 12:10	04/28/25 23:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/23/25 12:10	04/28/25 23:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/23/25 12:10	04/28/25 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/23/25 12:10	04/28/25 23:58	1
o-Terphenyl	117		70 - 130				04/23/25 12:10	04/28/25 23:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		9.94		mg/Kg			04/24/25 22:03	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-57202-1	S-1 (0-0.5')	110	91
880-57202-1 MS	S-1 (0-0.5')	108	101
880-57202-1 MSD	S-1 (0-0.5')	110	98
880-57202-2	S-1 (1')	104	100
880-57202-3	S-1 (1.5')	107	92
880-57202-4	S-1 (2')	104	94
880-57202-5	S-1 (3')	108	98
880-57202-6	S-2 (0-0.5')	107	91
880-57202-7	S-2 (1')	104	94
880-57202-8	S-2 (1.5')	107	92
880-57202-9	S-2 (2')	111	90
880-57202-10	S-2 (3')	103	96
880-57202-11	S-3 (0-0.5')	108	97
880-57202-12	S-3 (1')	110	89
880-57202-13	S-3 (1.5')	105	92
880-57202-14	S-3 (2')	108	99
880-57202-15	S-3 (3')	110	91
880-57202-16	S-4 (0-0.5')	105	90
880-57202-17	S-4 (1')	106	97
880-57202-18	S-4 (1.5')	104	97
880-57202-19	S-4 (2')	110	93
880-57202-20	S-4 (3')	110	94
LCS 880-108451/1-A	Lab Control Sample	108	102
LCSD 880-108451/2-A	Lab Control Sample Dup	110	100
MB 880-108451/5-A	Method Blank	97	87
MB 880-108915/5-A	Method Blank	102	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-57200-A-4-B MS	Matrix Spike	144 S1+	162 S1+
880-57200-A-4-C MSD	Matrix Spike Duplicate	145 S1+	163 S1+
880-57202-1	S-1 (0-0.5')	154 S1+	160 S1+
880-57202-2	S-1 (1')	150 S1+	159 S1+
880-57202-3	S-1 (1.5')	153 S1+	157 S1+
880-57202-4	S-1 (2')	150 S1+	155 S1+
880-57202-5	S-1 (3')	152 S1+	159 S1+
880-57202-6	S-2 (0-0.5')	153 S1+	157 S1+
880-57202-7	S-2 (1')	109	113
880-57202-7 MS	S-2 (1')	121	119
880-57202-7 MSD	S-2 (1')	120	118
880-57202-8	S-2 (1.5')	118	120
880-57202-9	S-2 (2')	117	122

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-57202-1

Project/Site: Red Light 27-34 State Com 002H

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-57202-10	S-2 (3')	114	118
880-57202-11	S-3 (0-0.5')	108	111
880-57202-12	S-3 (1')	117	121
880-57202-13	S-3 (1.5')	116	122
880-57202-14	S-3 (2')	113	117
880-57202-15	S-3 (3')	108	113
880-57202-16	S-4 (0-0.5')	119	122
880-57202-17	S-4 (1')	113	118
880-57202-18	S-4 (1.5')	115	118
880-57202-19	S-4 (2')	117	120
880-57202-20	S-4 (3')	116	117
LCS 880-108436/2-A	Lab Control Sample	115	104
LCS 880-108437/2-A	Lab Control Sample	150 S1+	143 S1+
LCSD 880-108436/3-A	Lab Control Sample Dup	135 S1+	122
LCSD 880-108437/3-A	Lab Control Sample Dup	151 S1+	144 S1+
MB 880-108436/1-A	Method Blank	174 S1+	174 S1+
MB 880-108437/1-A	Method Blank	104	99
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108451/5-A

Matrix: Solid

Analysis Batch: 108906

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/23/25 17:00	04/29/25 22:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 17:00	04/29/25 22:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 17:00	04/29/25 22:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/23/25 17:00	04/29/25 22:15	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/23/25 17:00	04/29/25 22:15	1

Lab Sample ID: LCS 880-108451/1-A

Matrix: Solid

Analysis Batch: 108906

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09946		mg/Kg		99	70 - 130
Toluene	0.100	0.08755		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09523		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-108451/2-A

Matrix: Solid

Analysis Batch: 108906

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108451

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1004		mg/Kg		100	70 - 130	1	35
Toluene	0.100	0.08951		mg/Kg		90	70 - 130	2	35
Ethylbenzene	0.100	0.09811		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2013		mg/Kg		101	70 - 130	3	35
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-57202-1 MS

Matrix: Solid

Analysis Batch: 108906

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

Prep Type: Total/NA

Prep Batch: 108451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.07249		mg/Kg		72	70 - 130
Toluene	<0.00200	U F1	0.100	0.06207	F1	mg/Kg		62	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57202-1 MS

Matrix: Solid

Analysis Batch: 108906

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

Prep Type: Total/NA

Prep Batch: 108451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.100	0.06837	F1	mg/Kg		68	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1374	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00200	U	0.100	0.06992		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-57202-1 MSD

Matrix: Solid

Analysis Batch: 108906

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

Prep Type: Total/NA

Prep Batch: 108451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07957		mg/Kg		80	70 - 130	9	35
Toluene	<0.00200	U F1	0.100	0.06691	F1	mg/Kg		67	70 - 130	8	35
Ethylbenzene	<0.00200	U F1	0.100	0.07280		mg/Kg		73	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1459		mg/Kg		73	70 - 130	6	35
o-Xylene	<0.00200	U	0.100	0.07382		mg/Kg		74	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-108915/5-A

Matrix: Solid

Analysis Batch: 108906

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/25 08:40	04/29/25 11:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/25 08:40	04/29/25 11:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/25 08:40	04/29/25 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/29/25 08:40	04/29/25 11:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/25 08:40	04/29/25 11:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/29/25 08:40	04/29/25 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/29/25 08:40	04/29/25 11:18	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/29/25 08:40	04/29/25 11:18	1

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

Lab Sample ID: MB 880-108436/1-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:06	04/27/25 07:22	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-108436/1-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108436

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 12:06	04/27/25 07:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:06	04/27/25 07:22	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	174	S1+	70 - 130				04/23/25 12:06	04/27/25 07:22	1
o-Terphenyl	174	S1+	70 - 130				04/23/25 12:06	04/27/25 07:22	1

Lab Sample ID: LCS 880-108436/2-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	914.7		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	976.8		mg/Kg		98	70 - 130		
Surrogate		LCS	LCS				Limits		
		%Recovery	Qualifier						
1-Chlorooctane		115					70 - 130		
o-Terphenyl		104					70 - 130		

Lab Sample ID: LCSD 880-108436/3-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1066		mg/Kg		107	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	1000	1150		mg/Kg		115	70 - 130	16	20
Surrogate		LCSD	LCSD				Limits		
		%Recovery	Qualifier						
1-Chlorooctane		135	S1+				70 - 130		
o-Terphenyl		122					70 - 130		

Lab Sample ID: 880-57200-A-4-B MS

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108436

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1229		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1000	1406	F1	mg/Kg		140	70 - 130		
Surrogate		MS	MS						Limits		
		%Recovery	Qualifier								
1-Chlorooctane		144	S1+						70 - 130		
o-Terphenyl		162	S1+						70 - 130		

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57200-A-4-C MSD

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1215		mg/Kg		121	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1000	1436	F1	mg/Kg		143	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	145	S1+	70 - 130								
o-Terphenyl	163	S1+	70 - 130								

Lab Sample ID: MB 880-108437/1-A

Matrix: Solid

Analysis Batch: 108845

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 19:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 19:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 12:10	04/28/25 19:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/23/25 12:10	04/28/25 19:13	1
o-Terphenyl	99		70 - 130				04/23/25 12:10	04/28/25 19:13	1

Lab Sample ID: LCS 880-108437/2-A

Matrix: Solid

Analysis Batch: 108845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1114		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	958.7		mg/Kg		96	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	150	S1+	70 - 130						
o-Terphenyl	143	S1+	70 - 130						

Lab Sample ID: LCSD 880-108437/3-A

Matrix: Solid

Analysis Batch: 108845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108437

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	959.5		mg/Kg		96	70 - 130	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-108437/3-A

Matrix: Solid

Analysis Batch: 108845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108437

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	151	S1+	70 - 130
o-Terphenyl	144	S1+	70 - 130

Lab Sample ID: 880-57202-7 MS

Matrix: Solid

Analysis Batch: 108845

Client Sample ID: S-2 (1')

Prep Type: Total/NA

Prep Batch: 108437

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1014		mg/Kg		101	70 - 130	
Diesel Range Organics (Over C10-C28)	57.0		1010	964.0		mg/Kg		90	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	121		70 - 130							
o-Terphenyl	119		70 - 130							

Lab Sample ID: 880-57202-7 MSD

Matrix: Solid

Analysis Batch: 108845

Client Sample ID: S-2 (1')

Prep Type: Total/NA

Prep Batch: 108437

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1040		mg/Kg		103	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	57.0		1010	1005		mg/Kg		94	70 - 130	4	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	120		70 - 130									
o-Terphenyl	118		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108486/1-A

Matrix: Solid

Analysis Batch: 108586

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<10.0	U	10.0		mg/Kg			04/24/25 19:14	1	

Lab Sample ID: LCS 880-108486/2-A

Matrix: Solid

Analysis Batch: 108586

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	244.6		mg/Kg		98	90 - 110		

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-108486/3-A

Matrix: Solid

Analysis Batch: 108586

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-57202-1 MS

Matrix: Solid

Analysis Batch: 108586

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	109		253	344.4		mg/Kg		93	90 - 110		

Lab Sample ID: 880-57202-1 MSD

Matrix: Solid

Analysis Batch: 108586

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	109		253	344.5		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-57202-11 MS

Matrix: Solid

Analysis Batch: 108586

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	105		252	359.1		mg/Kg		101	90 - 110		

Lab Sample ID: 880-57202-11 MSD

Matrix: Solid

Analysis Batch: 108586

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	105		252	359.7		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 108451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-57202-2	S-1 (1')	Total/NA	Solid	5035	
880-57202-3	S-1 (1.5')	Total/NA	Solid	5035	
880-57202-4	S-1 (2')	Total/NA	Solid	5035	
880-57202-5	S-1 (3')	Total/NA	Solid	5035	
880-57202-6	S-2 (0-0.5')	Total/NA	Solid	5035	
880-57202-7	S-2 (1')	Total/NA	Solid	5035	
880-57202-8	S-2 (1.5')	Total/NA	Solid	5035	
880-57202-9	S-2 (2')	Total/NA	Solid	5035	
880-57202-10	S-2 (3')	Total/NA	Solid	5035	
880-57202-11	S-3 (0-0.5')	Total/NA	Solid	5035	
880-57202-12	S-3 (1')	Total/NA	Solid	5035	
880-57202-13	S-3 (1.5')	Total/NA	Solid	5035	
880-57202-14	S-3 (2')	Total/NA	Solid	5035	
880-57202-15	S-3 (3')	Total/NA	Solid	5035	
880-57202-16	S-4 (0-0.5')	Total/NA	Solid	5035	
880-57202-17	S-4 (1')	Total/NA	Solid	5035	
880-57202-18	S-4 (1.5')	Total/NA	Solid	5035	
880-57202-19	S-4 (2')	Total/NA	Solid	5035	
880-57202-20	S-4 (3')	Total/NA	Solid	5035	
MB 880-108451/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108451/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108451/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57202-1 MS	S-1 (0-0.5')	Total/NA	Solid	5035	
880-57202-1 MSD	S-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 108906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-1	S-1 (0-0.5')	Total/NA	Solid	8021B	108451
880-57202-2	S-1 (1')	Total/NA	Solid	8021B	108451
880-57202-3	S-1 (1.5')	Total/NA	Solid	8021B	108451
880-57202-4	S-1 (2')	Total/NA	Solid	8021B	108451
880-57202-5	S-1 (3')	Total/NA	Solid	8021B	108451
880-57202-6	S-2 (0-0.5')	Total/NA	Solid	8021B	108451
880-57202-7	S-2 (1')	Total/NA	Solid	8021B	108451
880-57202-8	S-2 (1.5')	Total/NA	Solid	8021B	108451
880-57202-9	S-2 (2')	Total/NA	Solid	8021B	108451
880-57202-10	S-2 (3')	Total/NA	Solid	8021B	108451
880-57202-11	S-3 (0-0.5')	Total/NA	Solid	8021B	108451
880-57202-12	S-3 (1')	Total/NA	Solid	8021B	108451
880-57202-13	S-3 (1.5')	Total/NA	Solid	8021B	108451
880-57202-14	S-3 (2')	Total/NA	Solid	8021B	108451
880-57202-15	S-3 (3')	Total/NA	Solid	8021B	108451
880-57202-16	S-4 (0-0.5')	Total/NA	Solid	8021B	108451
880-57202-17	S-4 (1')	Total/NA	Solid	8021B	108451
880-57202-18	S-4 (1.5')	Total/NA	Solid	8021B	108451
880-57202-19	S-4 (2')	Total/NA	Solid	8021B	108451
880-57202-20	S-4 (3')	Total/NA	Solid	8021B	108451
MB 880-108451/5-A	Method Blank	Total/NA	Solid	8021B	108451
MB 880-108915/5-A	Method Blank	Total/NA	Solid	8021B	108915
LCS 880-108451/1-A	Lab Control Sample	Total/NA	Solid	8021B	108451

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QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 108906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-108451/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108451
880-57202-1 MS	S-1 (0-0.5')	Total/NA	Solid	8021B	108451
880-57202-1 MSD	S-1 (0-0.5')	Total/NA	Solid	8021B	108451

Prep Batch: 108915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108915/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 109085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57202-2	S-1 (1')	Total/NA	Solid	Total BTEX	
880-57202-3	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-57202-4	S-1 (2')	Total/NA	Solid	Total BTEX	
880-57202-5	S-1 (3')	Total/NA	Solid	Total BTEX	
880-57202-6	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57202-7	S-2 (1')	Total/NA	Solid	Total BTEX	
880-57202-8	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-57202-9	S-2 (2')	Total/NA	Solid	Total BTEX	
880-57202-10	S-2 (3')	Total/NA	Solid	Total BTEX	
880-57202-11	S-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57202-12	S-3 (1')	Total/NA	Solid	Total BTEX	
880-57202-13	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-57202-14	S-3 (2')	Total/NA	Solid	Total BTEX	
880-57202-15	S-3 (3')	Total/NA	Solid	Total BTEX	
880-57202-16	S-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57202-17	S-4 (1')	Total/NA	Solid	Total BTEX	
880-57202-18	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-57202-19	S-4 (2')	Total/NA	Solid	Total BTEX	
880-57202-20	S-4 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57202-2	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-57202-3	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-57202-4	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-57202-5	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-57202-6	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-108436/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108436/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57200-A-4-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57200-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 108437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-7	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-57202-8	S-2 (1.5')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 108437 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-9	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-57202-10	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-57202-11	S-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57202-12	S-3 (1')	Total/NA	Solid	8015NM Prep	
880-57202-13	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-57202-14	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-57202-15	S-3 (3')	Total/NA	Solid	8015NM Prep	
880-57202-16	S-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57202-17	S-4 (1')	Total/NA	Solid	8015NM Prep	
880-57202-18	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-57202-19	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-57202-20	S-4 (3')	Total/NA	Solid	8015NM Prep	
MB 880-108437/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108437/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108437/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57202-7 MS	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-57202-7 MSD	S-2 (1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 108764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	108436
880-57202-2	S-1 (1')	Total/NA	Solid	8015B NM	108436
880-57202-3	S-1 (1.5')	Total/NA	Solid	8015B NM	108436
880-57202-4	S-1 (2')	Total/NA	Solid	8015B NM	108436
880-57202-5	S-1 (3')	Total/NA	Solid	8015B NM	108436
880-57202-6	S-2 (0-0.5')	Total/NA	Solid	8015B NM	108436
MB 880-108436/1-A	Method Blank	Total/NA	Solid	8015B NM	108436
LCS 880-108436/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108436
LCSD 880-108436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108436
880-57200-A-4-B MS	Matrix Spike	Total/NA	Solid	8015B NM	108436
880-57200-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	108436

Analysis Batch: 108845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-7	S-2 (1')	Total/NA	Solid	8015B NM	108437
880-57202-8	S-2 (1.5')	Total/NA	Solid	8015B NM	108437
880-57202-9	S-2 (2')	Total/NA	Solid	8015B NM	108437
880-57202-10	S-2 (3')	Total/NA	Solid	8015B NM	108437
880-57202-11	S-3 (0-0.5')	Total/NA	Solid	8015B NM	108437
880-57202-12	S-3 (1')	Total/NA	Solid	8015B NM	108437
880-57202-13	S-3 (1.5')	Total/NA	Solid	8015B NM	108437
880-57202-14	S-3 (2')	Total/NA	Solid	8015B NM	108437
880-57202-15	S-3 (3')	Total/NA	Solid	8015B NM	108437
880-57202-16	S-4 (0-0.5')	Total/NA	Solid	8015B NM	108437
880-57202-17	S-4 (1')	Total/NA	Solid	8015B NM	108437
880-57202-18	S-4 (1.5')	Total/NA	Solid	8015B NM	108437
880-57202-19	S-4 (2')	Total/NA	Solid	8015B NM	108437
880-57202-20	S-4 (3')	Total/NA	Solid	8015B NM	108437
MB 880-108437/1-A	Method Blank	Total/NA	Solid	8015B NM	108437
LCS 880-108437/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108437
LCSD 880-108437/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108437

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QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 108845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-7 MS	S-2 (1')	Total/NA	Solid	8015B NM	108437
880-57202-7 MSD	S-2 (1')	Total/NA	Solid	8015B NM	108437

Analysis Batch: 108857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-57202-2	S-1 (1')	Total/NA	Solid	8015 NM	
880-57202-3	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-57202-4	S-1 (2')	Total/NA	Solid	8015 NM	
880-57202-5	S-1 (3')	Total/NA	Solid	8015 NM	
880-57202-6	S-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-57202-7	S-2 (1')	Total/NA	Solid	8015 NM	
880-57202-8	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-57202-9	S-2 (2')	Total/NA	Solid	8015 NM	
880-57202-10	S-2 (3')	Total/NA	Solid	8015 NM	
880-57202-11	S-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-57202-12	S-3 (1')	Total/NA	Solid	8015 NM	
880-57202-13	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-57202-14	S-3 (2')	Total/NA	Solid	8015 NM	
880-57202-15	S-3 (3')	Total/NA	Solid	8015 NM	
880-57202-16	S-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-57202-17	S-4 (1')	Total/NA	Solid	8015 NM	
880-57202-18	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-57202-19	S-4 (2')	Total/NA	Solid	8015 NM	
880-57202-20	S-4 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 108486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-57202-2	S-1 (1')	Soluble	Solid	DI Leach	
880-57202-3	S-1 (1.5')	Soluble	Solid	DI Leach	
880-57202-4	S-1 (2')	Soluble	Solid	DI Leach	
880-57202-5	S-1 (3')	Soluble	Solid	DI Leach	
880-57202-6	S-2 (0-0.5')	Soluble	Solid	DI Leach	
880-57202-7	S-2 (1')	Soluble	Solid	DI Leach	
880-57202-8	S-2 (1.5')	Soluble	Solid	DI Leach	
880-57202-9	S-2 (2')	Soluble	Solid	DI Leach	
880-57202-10	S-2 (3')	Soluble	Solid	DI Leach	
880-57202-11	S-3 (0-0.5')	Soluble	Solid	DI Leach	
880-57202-12	S-3 (1')	Soluble	Solid	DI Leach	
880-57202-13	S-3 (1.5')	Soluble	Solid	DI Leach	
880-57202-14	S-3 (2')	Soluble	Solid	DI Leach	
880-57202-15	S-3 (3')	Soluble	Solid	DI Leach	
880-57202-16	S-4 (0-0.5')	Soluble	Solid	DI Leach	
880-57202-17	S-4 (1')	Soluble	Solid	DI Leach	
880-57202-18	S-4 (1.5')	Soluble	Solid	DI Leach	
880-57202-19	S-4 (2')	Soluble	Solid	DI Leach	
880-57202-20	S-4 (3')	Soluble	Solid	DI Leach	
MB 880-108486/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 108486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-108486/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108486/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57202-1 MS	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-57202-1 MSD	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-57202-11 MS	S-3 (0-0.5')	Soluble	Solid	DI Leach	
880-57202-11 MSD	S-3 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 108586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57202-1	S-1 (0-0.5')	Soluble	Solid	300.0	108486
880-57202-2	S-1 (1')	Soluble	Solid	300.0	108486
880-57202-3	S-1 (1.5')	Soluble	Solid	300.0	108486
880-57202-4	S-1 (2')	Soluble	Solid	300.0	108486
880-57202-5	S-1 (3')	Soluble	Solid	300.0	108486
880-57202-6	S-2 (0-0.5')	Soluble	Solid	300.0	108486
880-57202-7	S-2 (1')	Soluble	Solid	300.0	108486
880-57202-8	S-2 (1.5')	Soluble	Solid	300.0	108486
880-57202-9	S-2 (2')	Soluble	Solid	300.0	108486
880-57202-10	S-2 (3')	Soluble	Solid	300.0	108486
880-57202-11	S-3 (0-0.5')	Soluble	Solid	300.0	108486
880-57202-12	S-3 (1')	Soluble	Solid	300.0	108486
880-57202-13	S-3 (1.5')	Soluble	Solid	300.0	108486
880-57202-14	S-3 (2')	Soluble	Solid	300.0	108486
880-57202-15	S-3 (3')	Soluble	Solid	300.0	108486
880-57202-16	S-4 (0-0.5')	Soluble	Solid	300.0	108486
880-57202-17	S-4 (1')	Soluble	Solid	300.0	108486
880-57202-18	S-4 (1.5')	Soluble	Solid	300.0	108486
880-57202-19	S-4 (2')	Soluble	Solid	300.0	108486
880-57202-20	S-4 (3')	Soluble	Solid	300.0	108486
MB 880-108486/1-A	Method Blank	Soluble	Solid	300.0	108486
LCS 880-108486/2-A	Lab Control Sample	Soluble	Solid	300.0	108486
LCSD 880-108486/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108486
880-57202-1 MS	S-1 (0-0.5')	Soluble	Solid	300.0	108486
880-57202-1 MSD	S-1 (0-0.5')	Soluble	Solid	300.0	108486
880-57202-11 MS	S-3 (0-0.5')	Soluble	Solid	300.0	108486
880-57202-11 MSD	S-3 (0-0.5')	Soluble	Solid	300.0	108486

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57202-1

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/29/25 22:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/29/25 22:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/27/25 12:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	108436	04/23/25 12:06	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 12:47	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 19:30	CH	EET MID

Client Sample ID: S-1 (1')

Lab Sample ID: 880-57202-2

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/29/25 22:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/29/25 22:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/27/25 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108436	04/23/25 12:06	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 13:03	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 19:47	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-57202-3

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/29/25 23:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/29/25 23:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/27/25 13:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	108436	04/23/25 12:06	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 13:19	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 19:53	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-57202-4

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/29/25 23:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/29/25 23:38	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-57202-4

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			108857	04/27/25 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	108436	04/23/25 12:06	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 13:36	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 19:59	CH	EET MID

Client Sample ID: S-1 (3')

Lab Sample ID: 880-57202-5

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/29/25 23:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/29/25 23:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/27/25 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108436	04/23/25 12:06	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 13:52	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 20:04	CH	EET MID

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

Lab Sample ID: 880-57202-6

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 00:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 00:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/27/25 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	108436	04/23/25 12:06	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 14:09	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 20:21	CH	EET MID

Client Sample ID: S-2 (1')

Lab Sample ID: 880-57202-7

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 00:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 00:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 19:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 19:59	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 20:27	CH	EET MID

Client Sample ID: S-2 (1.5')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 01:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 01:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 20:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 20:43	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 20:32	CH	EET MID

Client Sample ID: S-2 (2')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 01:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 01:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 20:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 20:58	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 20:38	CH	EET MID

Client Sample ID: S-2 (3')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 01:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 01:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 21:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 21:13	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 20:44	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-57202-11

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 03:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 21:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 21:28	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 20:49	CH	EET MID

Client Sample ID: S-3 (1')

Lab Sample ID: 880-57202-12

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 03:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 21:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 21:43	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 21:06	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-57202-13

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 03:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 03:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 21:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 21:59	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 21:12	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-57202-14

Date Collected: 04/17/25 00:00

Matrix: Solid

Date Received: 04/23/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 04:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 04:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			108857	04/28/25 22:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 22:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 21:29	CH	EET MID

Client Sample ID: S-3 (3')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 04:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 04:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 22:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 22:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 21:34	CH	EET MID

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

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 04:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 04:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 22:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 22:44	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 21:40	CH	EET MID

Client Sample ID: S-4 (1')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 05:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 05:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 23:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 23:13	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (1')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 21:46	CH	EET MID

Client Sample ID: S-4 (1.5')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 05:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 05:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 23:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 23:28	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 21:51	CH	EET MID

Client Sample ID: S-4 (2')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 05:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 05:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 23:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 23:42	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 21:57	CH	EET MID

Client Sample ID: S-4 (3')

Date Collected: 04/17/25 00:00

Date Received: 04/23/25 16:25

Lab Sample ID: 880-57202-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108451	04/23/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108906	04/30/25 06:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109085	04/30/25 06:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			108857	04/28/25 23:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108437	04/23/25 12:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108845	04/28/25 23:58	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108486	04/23/25 16:43	SI	EET MID
Soluble	Analysis	300.0		1			108586	04/24/25 22:03	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
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: Red Light 27-34 State Com 002H

Job ID: 880-57202-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57202-1	S-1 (0-0.5')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-2	S-1 (1')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-3	S-1 (1.5')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-4	S-1 (2')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-5	S-1 (3')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-6	S-2 (0-0.5')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-7	S-2 (1')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-8	S-2 (1.5')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-9	S-2 (2')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-10	S-2 (3')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-11	S-3 (0-0.5')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-12	S-3 (1')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-13	S-3 (1.5')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-14	S-3 (2')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-15	S-3 (3')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-16	S-4 (0-0.5')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-17	S-4 (1')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-18	S-4 (1.5')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-19	S-4 (2')	Solid	04/17/25 00:00	04/23/25 16:25
880-57202-20	S-4 (3')	Solid	04/17/25 00:00	04/23/25 16:25

Chain of Custody



880-57202 Chain of Custody

Project Manager: Conner Moehring		Bill to: (if different)		Cody Swanson Siege	
Company Name: Carmona Resources		Company Name:		Marathon Oil Corporation	
Address: 310 W Wall St Site 500		Address:		990 Town and Country Blvd	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Houston, TX 77024	
Phone: 432-813-6823		Email: swansonste@marathonoil.com			

Project Name: Red Light 27 34 State Com 002H		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number: 2685		☒ Routine ☐ Rush		Due Date: JM		Standard TAT														None: NO DI Water: H ₂ O	
Project Location: Eddy County, New Mexico																				Cool: Cool MeOH: Me	
Sampler's Name: JM																				HCL: HC HNO ₃ : HN	
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT		Temp Blank: Yes No		Wet loc: Yes No																H ₃ PO ₄ : HP	
Received Intact: Yes No		Thermometer ID: 125																		NaHSO ₄ : NABIS	
Cooler Custody Seals: Yes No		Correction Factor: N/A																		Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals: Yes No		Temperature Reading: -1.3																		Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature: -1.4																		NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont
S-1 (0-0.5')	4/17/2025		X		G	1
S-1 (1')	4/17/2025		X		G	1
S-1 (1.5')	4/17/2025		X		G	1
S-1 (2')	4/17/2025		X		G	1
S-1 (3')	4/17/2025		X		G	1
S-2 (0-0.5')	4/17/2025		X		G	1
S-2 (1')	4/17/2025		X		G	1
S-2 (1.5')	4/17/2025		X		G	1
S-2 (2')	4/17/2025		X		G	1
S-2 (3')	4/17/2025		X		G	1

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
<i>Conner Moehring</i>		4/22/2025 16:25		<i>[Signature]</i>		4/22/25 16:25	

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

Chain of Custody

Work Order No:

Page 2 of 2

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other: _____

Project Manager:	Conner Moehring	Bill to: (if different)	Cody Swanson Stege
Company Name:	Carmona Resources	Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 500	Address:	990 Town and Country Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Houston, TX 77024
Phone:	432-813-6823	Email:	swansonste@marathonoil.com

Project Name:		Red Light 27 34 State Com 002H		Turn Around			ANALYSIS REQUEST										Preservative Codes											
Project Number:		2685		☒ Routine ☐ Rush													None: NO											
Project Location		Eddy County, New Mexico		Due Date:													Cool: Cool											
Sampler's Name:		JM		Standard TAT													HCL: HC											
PO #:																	H ₂ SO ₄ : H ₂											
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No												H ₃ PO ₄ : HP								
Received Intact:		Yes No		Thermometer ID:																NaHSO ₄ : NABIS								
Cooler Custody Seals:		Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃								
Sample Custody Seals:		Yes No N/A		Temperature Reading:																Zn Acetate+NaOH: Zn								
Total Containers:				Corrected Temperature:																NaOH+Ascorbic Acid: SAPC								
Sample Identification		Date		Time		Soil		Water		Grab/ Comp		Parameters		Pres. Code												Sample Comments		
S-3 (0-0.5')		4/17/2025				X				G		1		X		X												
S-3 (1')		4/17/2025				X				G		1		X		X												
S-3 (1.5')		4/17/2025				X				G		1		X		X												
S-3 (2')		4/17/2025				X				G		1		X		X												
S-3 (3')		4/17/2025				X				G		1		X		X												
S-4 (0-0.5')		4/17/2025				X				G		1		X		X												
S-4 (1')		4/17/2025				X				G		1		X		X												
S-4 (1.5')		4/17/2025				X				G		1		X		X												
S-4 (2')		4/17/2025				X				G		1		X		X												
S-4 (3')		4/17/2025				X				G		1		X		X												

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	4/22/25 @ 16:25		4/22/25 16:25

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-57202-1
SDG Number: Eddy County, New Mexico

Login Number: 57202

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/9/2025 2:21:05 PM

JOB DESCRIPTION

Red Light 27 34 State Com 002H
Eddy County, New Mexico

JOB NUMBER

880-59056-1

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
6/9/2025 2:21:05 PM

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

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Laboratory Job ID: 880-59056-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Red Light 27 34 State Com 002H

Job ID: 880-59056-1

Job ID: 880-59056-1**Eurofins Midland****Job Narrative
880-59056-1**

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

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

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

Receipt

The samples were received on 6/6/2025 1:07 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 -2.4°C.

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: Surrogate recovery for the following samples were outside control limits: (880-59056-A-1-C MS) and (880-59056-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (4')

Lab Sample ID: 880-59056-1

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/06/25 14:30	06/06/25 16:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/06/25 14:30	06/06/25 16:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/06/25 14:30	06/06/25 16:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/06/25 14:30	06/06/25 16:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/06/25 14:30	06/06/25 16:54	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/06/25 14:30	06/06/25 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/06/25 14:30	06/06/25 16:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/06/25 14:30	06/06/25 16:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/06/25 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/06/25 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 18:06	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 18:06	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	06/06/25 14:46	06/06/25 18:06	1
o-Terphenyl	126		70 - 130	06/06/25 14:46	06/06/25 18:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.1		9.98		mg/Kg			06/06/25 17:28	1

Client Sample ID: CS-2 (4')

Lab Sample ID: 880-59056-2

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 17:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/06/25 14:30	06/06/25 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 17:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/06/25 14:30	06/06/25 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/06/25 14:30	06/06/25 17:14	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/06/25 14:30	06/06/25 17:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (4')

Lab Sample ID: 880-59056-2

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/25 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/06/25 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/06/25 14:46	06/06/25 18:50	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/06/25 14:46	06/06/25 18:50	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/06/25 14:46	06/06/25 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				06/06/25 14:46	06/06/25 18:50	1
o-Terphenyl	125		70 - 130				06/06/25 14:46	06/06/25 18:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.7		10.1		mg/Kg			06/06/25 17:49	1

Client Sample ID: CS-3 (4')

Lab Sample ID: 880-59056-3

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 17:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 17:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 17:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/25 14:30	06/06/25 17:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 17:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/25 14:30	06/06/25 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				06/06/25 14:30	06/06/25 17:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/06/25 14:30	06/06/25 17:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/25 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/25 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/25 14:46	06/06/25 19:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/25 14:46	06/06/25 19:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (4')

Lab Sample ID: 880-59056-3

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/25 14:46	06/06/25 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				06/06/25 14:46	06/06/25 19:05	1
o-Terphenyl	128		70 - 130				06/06/25 14:46	06/06/25 19:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.9		10.1		mg/Kg			06/06/25 17:56	1

Client Sample ID: SW-1 (4')

Lab Sample ID: 880-59056-4

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 17:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 17:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 17:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/25 14:30	06/06/25 17:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 17:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/25 14:30	06/06/25 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				06/06/25 14:30	06/06/25 17:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/06/25 14:30	06/06/25 17:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/25 17:55	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			06/06/25 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/25 14:46	06/06/25 19:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/25 14:46	06/06/25 19:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/25 14:46	06/06/25 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				06/06/25 14:46	06/06/25 19:20	1
o-Terphenyl	130		70 - 130				06/06/25 14:46	06/06/25 19:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.3		9.94		mg/Kg			06/06/25 18:04	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (4')

Lab Sample ID: 880-59056-5

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 18:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 18:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 18:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/06/25 14:30	06/06/25 18:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 18:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/06/25 14:30	06/06/25 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/06/25 14:30	06/06/25 18:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/06/25 14:30	06/06/25 18:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/25 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/06/25 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 19:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 19:36	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	06/06/25 14:46	06/06/25 19:36	1
o-Terphenyl	119		70 - 130	06/06/25 14:46	06/06/25 19:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.3		9.92		mg/Kg			06/06/25 18:11	1

Client Sample ID: SW-3 (4')

Lab Sample ID: 880-59056-6

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 18:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/06/25 14:30	06/06/25 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 18:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/06/25 14:30	06/06/25 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/06/25 14:30	06/06/25 18:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/06/25 14:30	06/06/25 18:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (4')

Lab Sample ID: 880-59056-6

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/06/25 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/06/25 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 19:51	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 19:51	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/06/25 14:46	06/06/25 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				06/06/25 14:46	06/06/25 19:51	1
o-Terphenyl	122		70 - 130				06/06/25 14:46	06/06/25 19:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.5		10.0		mg/Kg			06/06/25 18:32	1

Client Sample ID: SW-4 (4')

Lab Sample ID: 880-59056-7

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 18:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 18:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 18:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/25 14:30	06/06/25 18:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 18:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/25 14:30	06/06/25 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/06/25 14:30	06/06/25 18:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/06/25 14:30	06/06/25 18:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/25 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/06/25 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/06/25 14:46	06/06/25 20:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/06/25 14:46	06/06/25 20:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (4')

Lab Sample ID: 880-59056-7

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/06/25 14:46	06/06/25 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				06/06/25 14:46	06/06/25 20:05	1
o-Terphenyl	123		70 - 130				06/06/25 14:46	06/06/25 20:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.8		10.0		mg/Kg			06/06/25 18:39	1

Client Sample ID: SW-5 (4')

Lab Sample ID: 880-59056-8

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 19:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 19:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 19:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/25 14:30	06/06/25 19:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/25 14:30	06/06/25 19:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/25 14:30	06/06/25 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/06/25 14:30	06/06/25 19:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/06/25 14:30	06/06/25 19:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/06/25 19:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/25 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/06/25 14:46	06/06/25 20:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/25 14:46	06/06/25 20:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/25 14:46	06/06/25 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				06/06/25 14:46	06/06/25 20:21	1
o-Terphenyl	121		70 - 130				06/06/25 14:46	06/06/25 20:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.1		10.0		mg/Kg			06/06/25 18:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-6 (4')

Lab Sample ID: 880-59056-9

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 19:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 19:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 19:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/06/25 14:30	06/06/25 19:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/25 14:30	06/06/25 19:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/06/25 14:30	06/06/25 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/06/25 14:30	06/06/25 19:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/06/25 14:30	06/06/25 19:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/06/25 19:37	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			06/06/25 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/25 14:46	06/06/25 20:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/25 14:46	06/06/25 20:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/25 14:46	06/06/25 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	06/06/25 14:46	06/06/25 20:35	1
o-Terphenyl	124		70 - 130	06/06/25 14:46	06/06/25 20:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.4		9.94		mg/Kg			06/06/25 18:53	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-59056-1	CS-1 (4')	99	97
880-59056-2	CS-2 (4')	98	98
880-59056-3	CS-3 (4')	97	99
880-59056-4	SW-1 (4')	97	97
880-59056-5	SW-2 (4')	100	99
880-59056-6	SW-3 (4')	100	93
880-59056-7	SW-4 (4')	101	99
880-59056-8	SW-5 (4')	101	95
880-59056-9	SW-6 (4')	106	95
890-8261-A-1-E MS	Matrix Spike	91	89
890-8261-A-1-F MSD	Matrix Spike Duplicate	91	91
LCS 880-111647/1-A	Lab Control Sample	92	90
LCSD 880-111647/2-A	Lab Control Sample Dup	93	93
MB 880-111647/5-A	Method Blank	93	97
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-59056-1	CS-1 (4')	122	126
880-59056-1 MS	CS-1 (4')	133 S1+	128
880-59056-1 MSD	CS-1 (4')	134 S1+	128
880-59056-2	CS-2 (4')	125	125
880-59056-3	CS-3 (4')	123	128
880-59056-4	SW-1 (4')	123	130
880-59056-5	SW-2 (4')	116	119
880-59056-6	SW-3 (4')	120	122
880-59056-7	SW-4 (4')	120	123
880-59056-8	SW-5 (4')	118	121
880-59056-9	SW-6 (4')	122	124
LCS 880-111703/2-A	Lab Control Sample	98	96
LCSD 880-111703/3-A	Lab Control Sample Dup	99	96
MB 880-111703/1-A	Method Blank	87	90
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111647/5-A

Matrix: Solid

Analysis Batch: 111641

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/06/25 09:08	06/06/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/25 09:08	06/06/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/25 09:08	06/06/25 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/06/25 09:08	06/06/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/25 09:08	06/06/25 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/06/25 09:08	06/06/25 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/06/25 09:08	06/06/25 11:46	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/06/25 09:08	06/06/25 11:46	1

Lab Sample ID: LCS 880-111647/1-A

Matrix: Solid

Analysis Batch: 111641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08728		mg/Kg		87	70 - 130
Toluene	0.100	0.08127		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08595		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1730		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08822		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-111647/2-A

Matrix: Solid

Analysis Batch: 111641

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1070		mg/Kg		107	70 - 130	20	35
Toluene	0.100	0.09750		mg/Kg		98	70 - 130	18	35
Ethylbenzene	0.100	0.1050		mg/Kg		105	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.2098		mg/Kg		105	70 - 130	19	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-8261-A-1-E MS

Matrix: Solid

Analysis Batch: 111641

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 111647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09820		mg/Kg		98	70 - 130
Toluene	<0.00200	U	0.100	0.08870		mg/Kg		89	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-8261-A-1-E MS

Matrix: Solid

Analysis Batch: 111641

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 111647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09312		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1881		mg/Kg		94	70 - 130
o-Xylene	<0.00200	U	0.100	0.09438		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-8261-A-1-F MSD

Matrix: Solid

Analysis Batch: 111641

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 111647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09665		mg/Kg		97	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.08970		mg/Kg		90	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09254		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1852		mg/Kg		93	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.09263		mg/Kg		93	70 - 130	2	35

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

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

Lab Sample ID: MB 880-111703/1-A

Matrix: Solid

Analysis Batch: 111716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/25 14:46	06/06/25 09:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/25 14:46	06/06/25 09:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/25 14:46	06/06/25 09:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/06/25 14:46	06/06/25 09:52	1
o-Terphenyl	90		70 - 130	06/06/25 14:46	06/06/25 09:52	1

Lab Sample ID: LCS 880-111703/2-A

Matrix: Solid

Analysis Batch: 111716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	972.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	842.3		mg/Kg		84	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-111703/2-A

Matrix: Solid

Analysis Batch: 111716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111703

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-111703/3-A

Matrix: Solid

Analysis Batch: 111716

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	972.4		mg/Kg		97	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	852.4		mg/Kg		85	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-59056-1 MS

Matrix: Solid

Analysis Batch: 111716

Client Sample ID: CS-1 (4')

Prep Type: Total/NA

Prep Batch: 111703

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	813.4		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	774.0		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: 880-59056-1 MSD

Matrix: Solid

Analysis Batch: 111716

Client Sample ID: CS-1 (4')

Prep Type: Total/NA

Prep Batch: 111703

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	808.2		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	776.0		mg/Kg		78	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	128		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111707/1-A
Matrix: Solid
Analysis Batch: 111720

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/06/25 17:07	1

Lab Sample ID: LCS 880-111707/2-A
Matrix: Solid
Analysis Batch: 111720

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-111707/3-A
Matrix: Solid
Analysis Batch: 111720

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-59056-1 MS
Matrix: Solid
Analysis Batch: 111720

Client Sample ID: CS-1 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	74.1		250	299.1		mg/Kg		90	90 - 110

Lab Sample ID: 880-59056-1 MSD
Matrix: Solid
Analysis Batch: 111720

Client Sample ID: CS-1 (4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	74.1		250	298.2		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 111641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-1	CS-1 (4')	Total/NA	Solid	8021B	111647
880-59056-2	CS-2 (4')	Total/NA	Solid	8021B	111647
880-59056-3	CS-3 (4')	Total/NA	Solid	8021B	111647
880-59056-4	SW-1 (4')	Total/NA	Solid	8021B	111647
880-59056-5	SW-2 (4')	Total/NA	Solid	8021B	111647
880-59056-6	SW-3 (4')	Total/NA	Solid	8021B	111647
880-59056-7	SW-4 (4')	Total/NA	Solid	8021B	111647
880-59056-8	SW-5 (4')	Total/NA	Solid	8021B	111647
880-59056-9	SW-6 (4')	Total/NA	Solid	8021B	111647
MB 880-111647/5-A	Method Blank	Total/NA	Solid	8021B	111647
LCS 880-111647/1-A	Lab Control Sample	Total/NA	Solid	8021B	111647
LCSD 880-111647/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111647
890-8261-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	111647
890-8261-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	111647

Prep Batch: 111647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-1	CS-1 (4')	Total/NA	Solid	5035	
880-59056-2	CS-2 (4')	Total/NA	Solid	5035	
880-59056-3	CS-3 (4')	Total/NA	Solid	5035	
880-59056-4	SW-1 (4')	Total/NA	Solid	5035	
880-59056-5	SW-2 (4')	Total/NA	Solid	5035	
880-59056-6	SW-3 (4')	Total/NA	Solid	5035	
880-59056-7	SW-4 (4')	Total/NA	Solid	5035	
880-59056-8	SW-5 (4')	Total/NA	Solid	5035	
880-59056-9	SW-6 (4')	Total/NA	Solid	5035	
MB 880-111647/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111647/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111647/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8261-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-8261-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 111814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-1	CS-1 (4')	Total/NA	Solid	Total BTEX	
880-59056-2	CS-2 (4')	Total/NA	Solid	Total BTEX	
880-59056-3	CS-3 (4')	Total/NA	Solid	Total BTEX	
880-59056-4	SW-1 (4')	Total/NA	Solid	Total BTEX	
880-59056-5	SW-2 (4')	Total/NA	Solid	Total BTEX	
880-59056-6	SW-3 (4')	Total/NA	Solid	Total BTEX	
880-59056-7	SW-4 (4')	Total/NA	Solid	Total BTEX	
880-59056-8	SW-5 (4')	Total/NA	Solid	Total BTEX	
880-59056-9	SW-6 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 111703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-1	CS-1 (4')	Total/NA	Solid	8015NM Prep	
880-59056-2	CS-2 (4')	Total/NA	Solid	8015NM Prep	
880-59056-3	CS-3 (4')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 111703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-4	SW-1 (4')	Total/NA	Solid	8015NM Prep	
880-59056-5	SW-2 (4')	Total/NA	Solid	8015NM Prep	
880-59056-6	SW-3 (4')	Total/NA	Solid	8015NM Prep	
880-59056-7	SW-4 (4')	Total/NA	Solid	8015NM Prep	
880-59056-8	SW-5 (4')	Total/NA	Solid	8015NM Prep	
880-59056-9	SW-6 (4')	Total/NA	Solid	8015NM Prep	
MB 880-111703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-59056-1 MS	CS-1 (4')	Total/NA	Solid	8015NM Prep	
880-59056-1 MSD	CS-1 (4')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-1	CS-1 (4')	Total/NA	Solid	8015B NM	111703
880-59056-2	CS-2 (4')	Total/NA	Solid	8015B NM	111703
880-59056-3	CS-3 (4')	Total/NA	Solid	8015B NM	111703
880-59056-4	SW-1 (4')	Total/NA	Solid	8015B NM	111703
880-59056-5	SW-2 (4')	Total/NA	Solid	8015B NM	111703
880-59056-6	SW-3 (4')	Total/NA	Solid	8015B NM	111703
880-59056-7	SW-4 (4')	Total/NA	Solid	8015B NM	111703
880-59056-8	SW-5 (4')	Total/NA	Solid	8015B NM	111703
880-59056-9	SW-6 (4')	Total/NA	Solid	8015B NM	111703
MB 880-111703/1-A	Method Blank	Total/NA	Solid	8015B NM	111703
LCS 880-111703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111703
LCSD 880-111703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111703
880-59056-1 MS	CS-1 (4')	Total/NA	Solid	8015B NM	111703
880-59056-1 MSD	CS-1 (4')	Total/NA	Solid	8015B NM	111703

Analysis Batch: 111804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-1	CS-1 (4')	Total/NA	Solid	8015 NM	
880-59056-2	CS-2 (4')	Total/NA	Solid	8015 NM	
880-59056-3	CS-3 (4')	Total/NA	Solid	8015 NM	
880-59056-4	SW-1 (4')	Total/NA	Solid	8015 NM	
880-59056-5	SW-2 (4')	Total/NA	Solid	8015 NM	
880-59056-6	SW-3 (4')	Total/NA	Solid	8015 NM	
880-59056-7	SW-4 (4')	Total/NA	Solid	8015 NM	
880-59056-8	SW-5 (4')	Total/NA	Solid	8015 NM	
880-59056-9	SW-6 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 111707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-1	CS-1 (4')	Soluble	Solid	DI Leach	
880-59056-2	CS-2 (4')	Soluble	Solid	DI Leach	
880-59056-3	CS-3 (4')	Soluble	Solid	DI Leach	
880-59056-4	SW-1 (4')	Soluble	Solid	DI Leach	
880-59056-5	SW-2 (4')	Soluble	Solid	DI Leach	
880-59056-6	SW-3 (4')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 111707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-7	SW-4 (4')	Soluble	Solid	DI Leach	
880-59056-8	SW-5 (4')	Soluble	Solid	DI Leach	
880-59056-9	SW-6 (4')	Soluble	Solid	DI Leach	
MB 880-111707/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111707/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111707/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59056-1 MS	CS-1 (4')	Soluble	Solid	DI Leach	
880-59056-1 MSD	CS-1 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 111720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59056-1	CS-1 (4')	Soluble	Solid	300.0	111707
880-59056-2	CS-2 (4')	Soluble	Solid	300.0	111707
880-59056-3	CS-3 (4')	Soluble	Solid	300.0	111707
880-59056-4	SW-1 (4')	Soluble	Solid	300.0	111707
880-59056-5	SW-2 (4')	Soluble	Solid	300.0	111707
880-59056-6	SW-3 (4')	Soluble	Solid	300.0	111707
880-59056-7	SW-4 (4')	Soluble	Solid	300.0	111707
880-59056-8	SW-5 (4')	Soluble	Solid	300.0	111707
880-59056-9	SW-6 (4')	Soluble	Solid	300.0	111707
MB 880-111707/1-A	Method Blank	Soluble	Solid	300.0	111707
LCS 880-111707/2-A	Lab Control Sample	Soluble	Solid	300.0	111707
LCSD 880-111707/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111707
880-59056-1 MS	CS-1 (4')	Soluble	Solid	300.0	111707
880-59056-1 MSD	CS-1 (4')	Soluble	Solid	300.0	111707

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (4')

Lab Sample ID: 880-59056-1

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 16:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 16:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			111804	06/06/25 18:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 18:06	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 17:28	CH	EET MID

Client Sample ID: CS-2 (4')

Lab Sample ID: 880-59056-2

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 17:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			111804	06/06/25 18:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 18:50	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 17:49	CH	EET MID

Client Sample ID: CS-3 (4')

Lab Sample ID: 880-59056-3

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 17:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			111804	06/06/25 19:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 19:05	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 17:56	CH	EET MID

Client Sample ID: SW-1 (4')

Lab Sample ID: 880-59056-4

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 17:55	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (4')

Lab Sample ID: 880-59056-4

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			111804	06/06/25 19:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 19:20	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 18:04	CH	EET MID

Client Sample ID: SW-2 (4')

Lab Sample ID: 880-59056-5

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 18:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			111804	06/06/25 19:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 19:36	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 18:11	CH	EET MID

Client Sample ID: SW-3 (4')

Lab Sample ID: 880-59056-6

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 18:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			111804	06/06/25 19:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 19:51	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 18:32	CH	EET MID

Client Sample ID: SW-4 (4')

Lab Sample ID: 880-59056-7

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 18:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			111804	06/06/25 20:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 20:05	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (4')

Lab Sample ID: 880-59056-7

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 18:39	CH	EET MID

Client Sample ID: SW-5 (4')

Lab Sample ID: 880-59056-8

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 19:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 19:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			111804	06/06/25 20:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 20:21	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 18:46	CH	EET MID

Client Sample ID: SW-6 (4')

Lab Sample ID: 880-59056-9

Date Collected: 06/06/25 00:00

Matrix: Solid

Date Received: 06/06/25 13:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111647	06/06/25 14:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111641	06/06/25 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111814	06/06/25 19:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			111804	06/06/25 20:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	111703	06/06/25 14:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111716	06/06/25 20:35	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	111707	06/06/25 15:35	SMC	EET MID
Soluble	Analysis	300.0		1			111720	06/06/25 18:53	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: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
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: Red Light 27 34 State Com 002H

Job ID: 880-59056-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-59056-1	CS-1 (4')	Solid	06/06/25 00:00	06/06/25 13:07
880-59056-2	CS-2 (4')	Solid	06/06/25 00:00	06/06/25 13:07
880-59056-3	CS-3 (4')	Solid	06/06/25 00:00	06/06/25 13:07
880-59056-4	SW-1 (4')	Solid	06/06/25 00:00	06/06/25 13:07
880-59056-5	SW-2 (4')	Solid	06/06/25 00:00	06/06/25 13:07
880-59056-6	SW-3 (4')	Solid	06/06/25 00:00	06/06/25 13:07
880-59056-7	SW-4 (4')	Solid	06/06/25 00:00	06/06/25 13:07
880-59056-8	SW-5 (4')	Solid	06/06/25 00:00	06/06/25 13:07
880-59056-9	SW-6 (4')	Solid	06/06/25 00:00	06/06/25 13:07

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Chain of Custody



880-59056 Chain of Custody

Project Manager:	Conner Moehring	Bill to: (if different)	Cody Swanson Stege
Company Name:	Carmona Resources	Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 500	Address:	990 Town and Country Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Houston, TX 77024
Phone:	432-813-6823	Email:	swansonste@marathonoil.com

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

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Red Light 27 34 State Com 002H	Turn Around	Pres. Code							None: NO	DI Water: H ₂ O
Project Number:	2685	☐ Routine ☒ Rush								Cool: Cool	MeOH: Me
Project Location:	Eddy County, New Mexico	Due Date:	24 Hour							HCL: HC	HNO ₃ : HN
Sampler's Name:	JM									H ₂ SO ₄ : H ₂	NaOH: Na
PO #:										H ₃ PO ₄ : HP	
SAMPLE RECEIPT		Temp Blank: Yes () No ()		Wet Ice: Yes () No ()						NaHSO ₄ : NABIS	
Received Intact		Thermometer ID:		Correction Factor:						Na ₂ S ₂ O ₃ : NaSO ₃	
Cooler Custody Seals:		Yes No		Temperature Reading:						Zn Acetate+NaOH: Zn	
Sample Custody Seals:		Yes No		Corrected Temperature:						NaOH+Ascorbic Acid: SAPC	
Total Containers:											
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont					
CS-1 (4')	6/6/2025		X		C	1	X	X	X	X	
CS-2 (4')	6/6/2025		X		C	1	X	X	X	X	
CS-3 (4')	6/6/2025		X		C	1	X	X	X	X	
SW-1 (4')	6/6/2025		X		C	1	X	X	X	X	
SW-2 (4')	6/6/2025		X		C	1	X	X	X	X	
SW-3 (4')	6/6/2025		X		C	1	X	X	X	X	
SW-4 (4')	6/6/2025		X		C	1	X	X	X	X	
SW-5 (4')	6/6/2025		X		C	1	X	X	X	X	
SW-6 (4')	6/6/2025		X		C	1	X	X	X	X	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>gub</i>	6/6/25 1307	<i>[Signature]</i>	6/6/25 1307

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-59056-1
SDG Number: Eddy County, New Mexico

Login Number: 59056

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/11/2025 2:53:34 PM

JOB DESCRIPTION

Decimus Fed Com TB
Eddy County, New Mexico

JOB NUMBER

880-59162-1

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
6/11/2025 2:53:34 PM

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

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Laboratory Job ID: 880-59162-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Decimus Fed Com TB

Job ID: 880-59162-1

Job ID: 880-59162-1

Eurofins Midland

Job Narrative 880-59162-1

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

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

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

Receipt

The sample was received on 6/10/2025 3:48 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 -4.3°C.

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 880-111910 and analytical batch 880-111898 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: The continuing calibration verification (CCV) associated with batch 880-111898 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour limit, therefore the data has been qualified and reported. The associated sample is:(CCV 880-111898/58).

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

Client Sample ID: Backfill

Lab Sample ID: 880-59162-1

Date Collected: 06/10/25 00:00

Matrix: Solid

Date Received: 06/10/25 15:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/11/25 09:05	06/11/25 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/11/25 09:05	06/11/25 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/11/25 09:05	06/11/25 11:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/11/25 09:05	06/11/25 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/11/25 09:05	06/11/25 11:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/11/25 09:05	06/11/25 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/11/25 09:05	06/11/25 11:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/11/25 09:05	06/11/25 11:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/11/25 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			06/11/25 04:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		06/10/25 15:04	06/11/25 04:06	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		06/10/25 15:04	06/11/25 04:06	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		06/10/25 15:04	06/11/25 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	06/10/25 15:04	06/11/25 04:06	1
o-Terphenyl	85		70 - 130	06/10/25 15:04	06/11/25 04:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.6		9.94		mg/Kg			06/11/25 08:48	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-59162-1	Backfill	90	94
880-59162-1 MS	Backfill	94	89
880-59162-1 MSD	Backfill	89	91
LCS 880-111944/1-A	Lab Control Sample	93	89
LCSD 880-111944/2-A	Lab Control Sample Dup	91	87
MB 880-111944/5-A	Method Blank	89	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-19299-A-1-E MS	Matrix Spike	78	75
820-19299-A-1-F MSD	Matrix Spike Duplicate	79	75
880-59162-1	Backfill	81	85
LCS 880-111910/2-A	Lab Control Sample	120	116
LCSD 880-111910/3-A	Lab Control Sample Dup	117	114
MB 880-111910/1-A	Method Blank	94	96
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111944/5-A
Matrix: Solid
Analysis Batch: 111937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/11/25 09:05	06/11/25 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/11/25 09:05	06/11/25 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/11/25 09:05	06/11/25 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/11/25 09:05	06/11/25 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/11/25 09:05	06/11/25 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/11/25 09:05	06/11/25 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	06/11/25 09:05	06/11/25 11:35	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/11/25 09:05	06/11/25 11:35	1

Lab Sample ID: LCS 880-111944/1-A
Matrix: Solid
Analysis Batch: 111937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1028		mg/Kg		103	70 - 130
Toluene	0.100	0.09799		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2092		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-111944/2-A
Matrix: Solid
Analysis Batch: 111937

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111944

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1042		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.09676		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.1037		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2104		mg/Kg		105	70 - 130	1	35
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-59162-1 MS
Matrix: Solid
Analysis Batch: 111937

Client Sample ID: Backfill
Prep Type: Total/NA
Prep Batch: 111944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08957		mg/Kg		90	70 - 130
Toluene	<0.00200	U	0.100	0.08140		mg/Kg		81	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-59162-1 MS

Matrix: Solid

Analysis Batch: 111937

Client Sample ID: Backfill

Prep Type: Total/NA

Prep Batch: 111944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08567		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1756		mg/Kg		88	70 - 130
o-Xylene	<0.00200	U	0.100	0.08894		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-59162-1 MSD

Matrix: Solid

Analysis Batch: 111937

Client Sample ID: Backfill

Prep Type: Total/NA

Prep Batch: 111944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1094		mg/Kg		109	70 - 130	20	35
Toluene	<0.00200	U	0.100	0.1012		mg/Kg		101	70 - 130	22	35
Ethylbenzene	<0.00200	U	0.100	0.1048		mg/Kg		105	70 - 130	20	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2117		mg/Kg		106	70 - 130	19	35
o-Xylene	<0.00200	U	0.100	0.1063		mg/Kg		106	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-111910/1-A

Matrix: Solid

Analysis Batch: 111898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/25 15:04	06/10/25 21:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/25 15:04	06/10/25 21:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/25 15:04	06/10/25 21:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/10/25 15:04	06/10/25 21:42	1
o-Terphenyl	96		70 - 130	06/10/25 15:04	06/10/25 21:42	1

Lab Sample ID: LCS 880-111910/2-A

Matrix: Solid

Analysis Batch: 111898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	947.3		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	957.1		mg/Kg		96	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-111910/2-A

Matrix: Solid

Analysis Batch: 111898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111910

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-111910/3-A

Matrix: Solid

Analysis Batch: 111898

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111910

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	918.0		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	910.9		mg/Kg		91	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: 820-19299-A-1-E MS

Matrix: Solid

Analysis Batch: 111898

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 111910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	999	630.8	F1	mg/Kg		63	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	999	652.0	F1	mg/Kg		65	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 820-19299-A-1-F MSD

Matrix: Solid

Analysis Batch: 111898

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 111910

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	999	638.5	F1	mg/Kg		64	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	999	668.5	F1	mg/Kg		67	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	75		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111921/1-A
Matrix: Solid
Analysis Batch: 111923

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/11/25 08:26	1

Lab Sample ID: LCS 880-111921/2-A
Matrix: Solid
Analysis Batch: 111923

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	225.8		mg/Kg		90	90 - 110

Lab Sample ID: LCSD 880-111921/3-A
Matrix: Solid
Analysis Batch: 111923

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	227.8		mg/Kg		91	90 - 110	1	20

Lab Sample ID: 880-59162-1 MS
Matrix: Solid
Analysis Batch: 111923

Client Sample ID: Backfill
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	61.6		249	313.9		mg/Kg		101	90 - 110

Lab Sample ID: 880-59162-1 MSD
Matrix: Solid
Analysis Batch: 111923

Client Sample ID: Backfill
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.6		249	313.8		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 111937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1	Backfill	Total/NA	Solid	8021B	111944
MB 880-111944/5-A	Method Blank	Total/NA	Solid	8021B	111944
LCS 880-111944/1-A	Lab Control Sample	Total/NA	Solid	8021B	111944
LCSD 880-111944/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111944
880-59162-1 MS	Backfill	Total/NA	Solid	8021B	111944
880-59162-1 MSD	Backfill	Total/NA	Solid	8021B	111944

Prep Batch: 111944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1	Backfill	Total/NA	Solid	5035	
MB 880-111944/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111944/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111944/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-59162-1 MS	Backfill	Total/NA	Solid	5035	
880-59162-1 MSD	Backfill	Total/NA	Solid	5035	

Analysis Batch: 112013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1	Backfill	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 111898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1	Backfill	Total/NA	Solid	8015B NM	111910
MB 880-111910/1-A	Method Blank	Total/NA	Solid	8015B NM	111910
LCS 880-111910/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111910
LCSD 880-111910/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111910
820-19299-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	111910
820-19299-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	111910

Prep Batch: 111910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1	Backfill	Total/NA	Solid	8015NM Prep	
MB 880-111910/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111910/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111910/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-19299-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
820-19299-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1	Backfill	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 111921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1	Backfill	Soluble	Solid	DI Leach	
MB 880-111921/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111921/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111921/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 111921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1 MS	Backfill	Soluble	Solid	DI Leach	
880-59162-1 MSD	Backfill	Soluble	Solid	DI Leach	

Analysis Batch: 111923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59162-1	Backfill	Soluble	Solid	300.0	111921
MB 880-111921/1-A	Method Blank	Soluble	Solid	300.0	111921
LCS 880-111921/2-A	Lab Control Sample	Soluble	Solid	300.0	111921
LCSD 880-111921/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111921
880-59162-1 MS	Backfill	Soluble	Solid	300.0	111921
880-59162-1 MSD	Backfill	Soluble	Solid	300.0	111921

Lab Chronicle

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

Client Sample ID: Backfill
Date Collected: 06/10/25 00:00
Date Received: 06/10/25 15:48

Lab Sample ID: 880-59162-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111944	06/11/25 09:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111937	06/11/25 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112013	06/11/25 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			111985	06/11/25 04:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	111910	06/10/25 15:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111898	06/11/25 04:06	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	111921	06/10/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1			111923	06/11/25 08:48	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: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: Decimus Fed Com TB

Job ID: 880-59162-1
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: Decimus Fed Com TB

Job ID: 880-59162-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-59162-1	Backfill	Solid	06/10/25 00:00	06/10/25 15:48

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

Chain of Custody



880-59162 Chain of Custody

Project Manager:	Conner Moehring	Bill to: (if different)	Cody Swanson Stege
Company Name:	Carmona Resources	Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 500	Address:	990 Town and Country Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Houston, TX 77024
Phone:	432-813-6823	Email:	swansonste@marathonoil.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Turn Around				ANALYSIS REQUEST				Preservative Codes	
Decimus Fed Com TB		Eddy County, New Mexico		TPH 8015M (GRO + DRO + MRO)		BTX 8021B		Chloride 300.0	
Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Parameters	Pres. Code	None: NO	DI Water: H ₂ O	
Decimus Fed Com TB	2712	Eddy County, New Mexico	JM				None: NO	DI Water: H ₂ O	
							Cool: Cool	MeOH: Me	
							HCL: HC	HNO ₃ : HN	
							H ₂ SO ₄ : H ₂	NaOH: Na	
							H ₃ PO ₄ : HP		
							NaHSO ₄ : NABIS		
							Na ₂ S ₂ O ₃ : NaSO ₃		
							Zn Acetate+NaOH: Zn		
							NaOH+Ascorbic Acid: SAPC		

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	6/10/25 @ 15:48	<i>[Signature]</i>	6/10/25 @ 15:48

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-59162-1

SDG Number: Eddy County, New Mexico

Login Number: 59162

List Number: 1

List Source: Eurofins Midland

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

QUESTIONS

Action 588399

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 588399
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2508438017
Incident Name	NAPP2508438017 RED LIGHT 27 34 STATE COM #002H @ 30-015-43917
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-43917] RED LIGHT 27 34 STATE COM #002H

Location of Release Source

Please answer all the questions in this group.

Site Name	RED LIGHT 27 34 STATE COM #002H
Date Release Discovered	03/24/2025
Surface Owner	State

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 2 BBL Recovered: 2 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 11 BBL Recovered: 11 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A nipple on the bottom of the LP separator failed resulting in the release of a mixture of 16% oil and 84% produced water.

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QUESTIONS, Page 2

Action 588399

QUESTIONS (continued)

Operator: MARATHON OIL PERMAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
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QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jacqui Harris Title: Sr Environment Engineer Email: jacqui.harris@conocophillips.com Date: 05/26/2026
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QUESTIONS, Page 3

Action 588399

QUESTIONS (continued)

Operator: MARATHON OIL PERMAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 588399
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	273
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	161
GRO+DRO (EPA SW-846 Method 8015M)	161
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/04/2025
On what date will (or did) the final sampling or liner inspection occur	06/06/2025
On what date will (or was) the remediation complete(d)	06/11/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	597
What is the estimated volume (in cubic yards) that will be remediated	105
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 588399

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 588399
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
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	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jacqui Harris Title: Sr Environment Engineer Email: jacqui.harris@conocophillips.com Date: 05/27/2026
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 588399

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 588399
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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Action 588399

QUESTIONS (continued)

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

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	470574
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/06/2025
What was the (estimated) number of samples that were to be gathered	13
What was the sampling surface area in square feet	590

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	597
What was the total volume (cubic yards) remediated	105
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	n/a
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Jacqui Harris Title: Sr Environment Engineer Email: jacqui.harris@conocophillips.com Date: 05/27/2026

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Action 588399

QUESTIONS (continued)

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	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 588399

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvez	None	7/1/2026