



SITE INFORMATION

Closure Report
Black Pearl 1 Federal 1H (04.03.25)
Lea County, New Mexico
Unit A Sec 01 T20S R34E
nAPP2509442530
32.60942779°, -103.5092305°

Crude Oil Release
Point of Release: Equipment Corrosion
Release Date: 04/03/2025
Volume Released: 2 Barrels of Crude Oil
Volume Recovered: 0 Barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
Concho Operating, 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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May 29, 2025

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

Re: Closure Report
Black Pearl 1 Federal 1H (04.03.25)
Incident ID: NAPP2509442530
Concho Operating, LLC
Site Location: Unit A, S01, T20S, R34E
(Lat 32.60942779°, Long -103.5092305°)
Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Black Pearl 1 Federal 1H (04.03.25). The site is located at 3260942779, -103.5092305 within Unit A, S01, T20S, R34E, in Lea 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 April 3, 2025, due to equipment failure. The incident released approximately two (2) barrels of crude oil with zero (0) barrels of produced water recovered. The impacted area occurred on pad, as shown in Figure 3. The Notice of Release form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.89 miles Southeast of the site in S06, T20S, R35E and was drilled in 1991. The well has a reported depth to groundwater of 54.23' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On April 16, 2025, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and five (5) horizontal sample points (H-1 through H-5) 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

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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 mark out the proposed excavation areas and collect confirmation samples. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on May 13, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. The area of S-2 was excavated to a depth of 1.5' to ensure the removal of all impacted material. A total of two (2) confirmation floor samples were collected (CS-1 and CS-2), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were 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 17 cubic yards of material were excavated and transported off-site for proper disposal.

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. COG formally requests the closure of this incident. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-6823.

Sincerely,

Carmona Resources, LLC

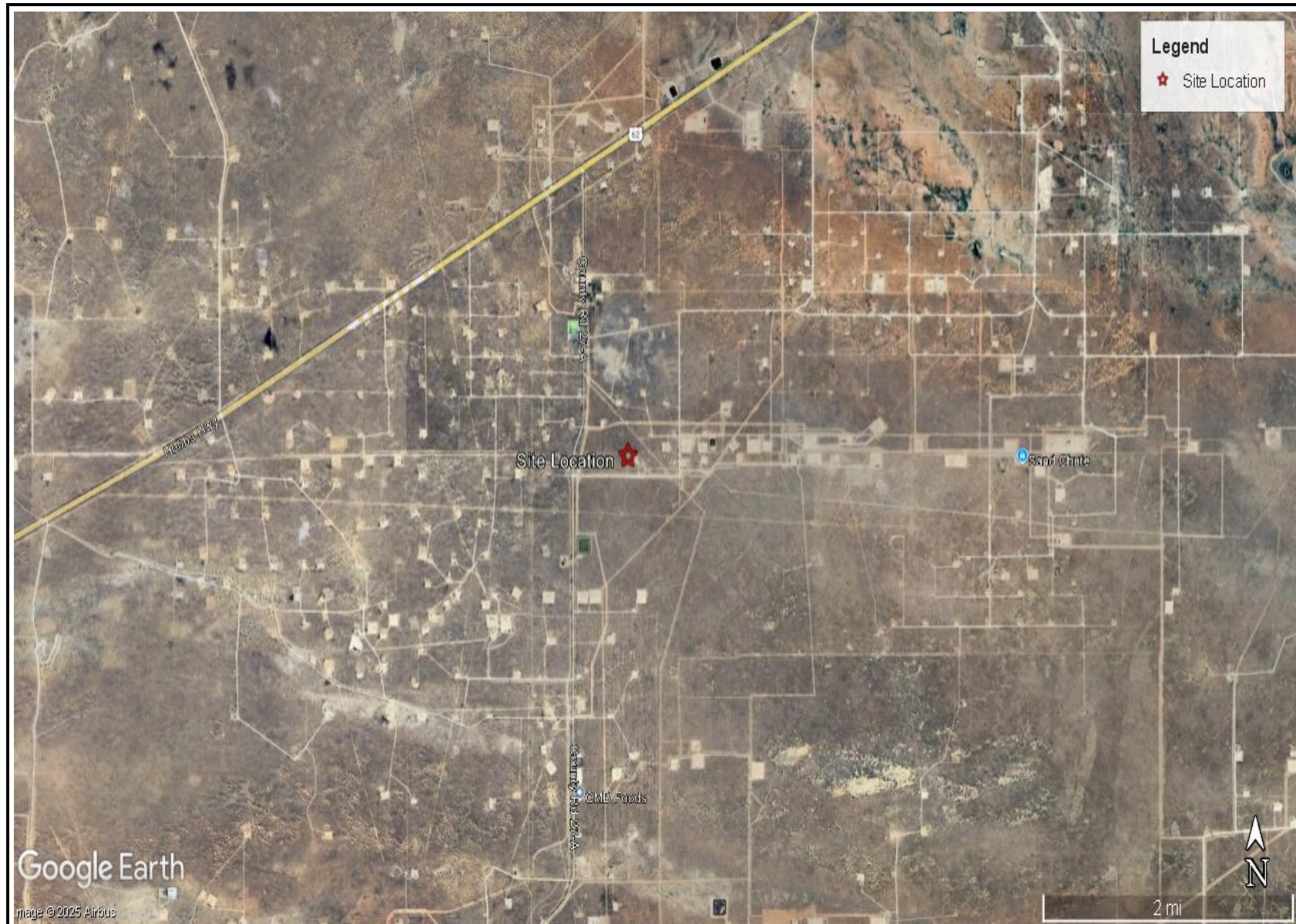
Conner Moehring
Environmental Manager

Ivan Ramos
Project Manager

FIGURES

CARMONA RESOURCES

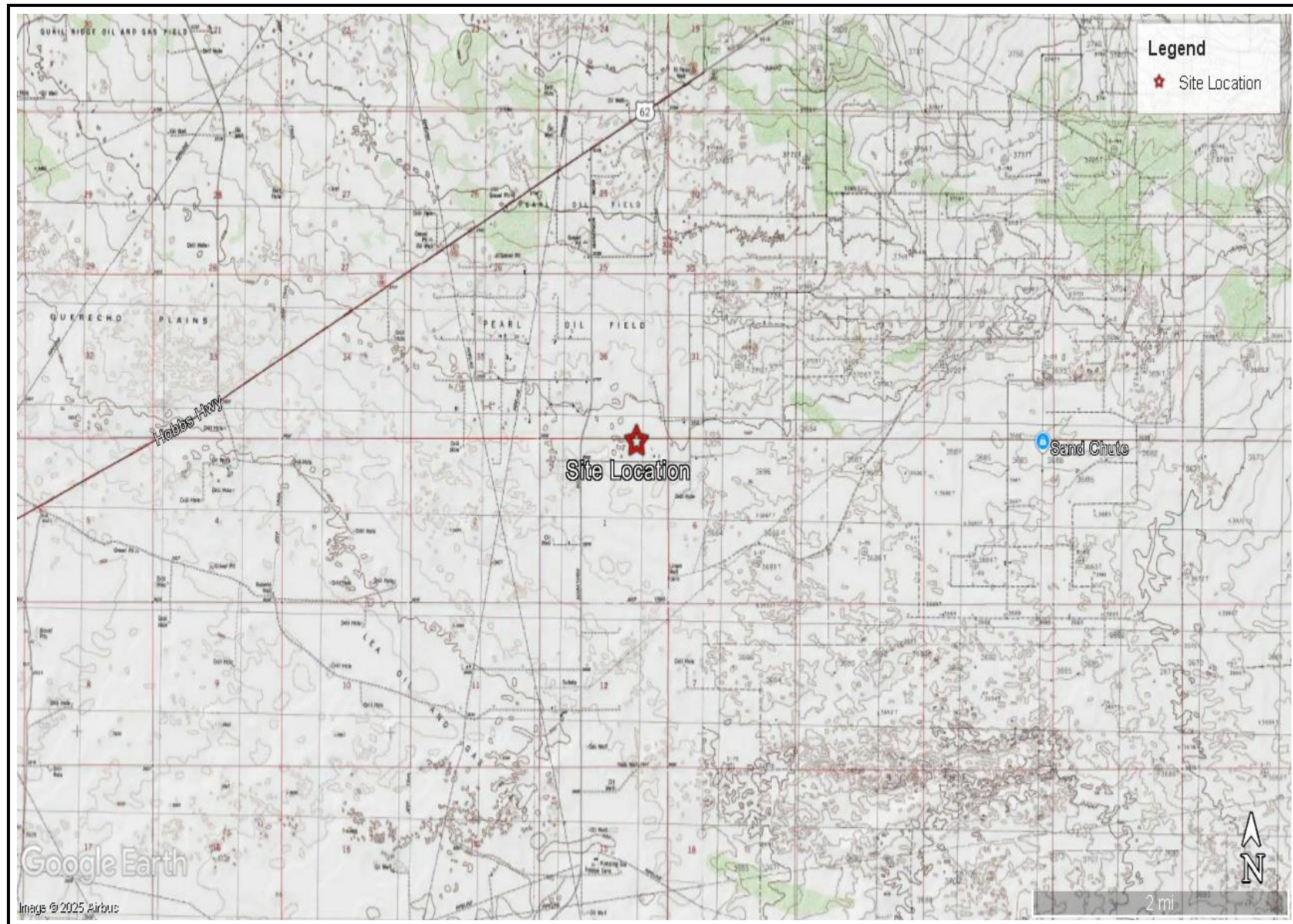




OVERVIEW MAP
COG OPERATING, LLC
BLACK PEARL 1 FEDERAL 1H FLARE FIRE (04.03.25)
LEA COUNTY, NEW MEXICO
32.60942778°, -103.5092305°



FIGURE 1



TOPOGRAPHIC MAP
 COG OPERATING, LLC
 BLACK PEARL 1 FEDERAL 1H FLARE FIRE (04.03.25)
 LEA COUNTY, NEW MEXICO
 32.60942778°, -103.5092305°



FIGURE 2





EXCAVATION DEPTH MAP
COG OPERATING, LLC
BLACK PEARL 1 FEDERAL 1H FLARE FIRE (04.03.25)
LEA COUNTY, NEW MEXICO
32.60942778°, -103.5092305°



FIGURE 4

APPENDIX A

CARMONA RESOURCES



Table 1
Conoco Phillips
Black Pearl 1 Federal 1H (04.03.2025)
Lea County, New Mexico

Sample ID	Date	Depth (in/ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	4/16/2025	0-3"	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	75.3
	"	6"	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	68.3
	"	1.0'	<49.9	56.2	<49.9	56.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	91.2
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	93.7
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	95.2
	"	3.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	100
S-2	4/16/2025	0-3"	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	80.5
	"	6"	<50.1	65.1	<50.1	65.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	77.8
	"	1.0'	<50.2	164	83.1	247	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	88.2
	"	1.5'	<50.0	54.9	<50.0	54.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	54.7
	"	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	96.2
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	96.0
S-3	4/16/2025	0-3"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	42.7
	"	6"	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	50.1
	"	1.0'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	80.4
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	119
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	106
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	124
H-1	4/16/2025	0-3"	<49.9	53.9	<49.9	53.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	94.5
H-2	4/16/2025	0-3"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	85.3
H-3	4/16/2025	0-3"	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	57.8
H-4	4/16/2025	0-3"	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	74.0
H-5	4/16/2025	0-3"	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	87.3
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 2
Conoco Phillips
Black Pearl 1 Federal 1H (04.03.2025)
Lea County, New Mexico

Sample ID	Date	Depth (in/ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	5/16/2025	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	84.3
CS-2	5/16/2025	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	100
SW-1	5/16/2025	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	61.5
SW-2	5/16/2025	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	73.9
SW-3	5/16/2025	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	68.2
SW-4	5/16/2025	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	100
Backfill Material	5/16/2025	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	138
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

in - inches

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

COG Operating, LLC

Photograph No. 1

Facility: Black Pearl 1 Federal 1H Flare Fire
(04.03.25)

County: Lea County, New Mexico

Description:

View Southwest area of Sample Points (1-3).



Photograph No. 2

Facility: Black Pearl 1 Federal 1H Flare Fire
(04.03.25)

County: Lea County, New Mexico

Description:

View North, area of Confirmation Samples (1 & 2).



Photograph No. 3

Facility: Black Pearl 1 Federal 1H Flare Fire
(04.03.25)

County: Lea County, New Mexico

Description:

View West of the backfilled excavation.



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 448861

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 448861
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Black Pearl 1 Federal 1H
Date Release Discovered	04/03/2025
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Emergency services were not notified Release was confined to the well pad Facility has been cleared by safety personnel

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QUESTIONS, Page 2

Action 448861

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 448861
	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)	More volume information must be supplied to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Emergency services were not notified Release was confined to the well pad Facility has been cleared by safety personnel

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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ACKNOWLEDGMENTS

Action 448861

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 448861
	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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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 448861

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 448861
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jlaire	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/4/2025

Received by OCD: 6/11/2025 10:41:01AM								Spill Calculation - Subsurface Spill - Rectangle		Remediation Recommendation	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)		Total Estimated Contaminated Soil, uncompacted, 25% (yd³.)	Current Rule of Thumb - RMR Handover Volume, (yd³.)	
Rectangle A	16.0	28.0	0.3	Off-Pad✓	15.02%	1.99	0.30		0.52	750	
Rectangle B				✓		0.00			0.00		
Rectangle C				✓		0.00			0.00		
Rectangle D				✓		0.00			0.00		
Rectangle E				✓		0.00			0.00		
Rectangle F				✓		0.00			0.00		
Rectangle G				✓		0.00			0.00		
Rectangle H				✓		0.00			0.00		
Rectangle I				✓		0.00			0.00		
Rectangle J				✓		0.00			0.00		
Released to Imaging: 6/18/2025 8:58:20 AM							Total Subsurface Volume Released:	0.2994	0.52	BU	

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

QUESTIONS

Action 453021

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 453021
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509442530
Incident Name	NAPP2509442530 BLACK PEARL 1 FEDERAL 1H @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2202756980] Black Pearl 1 Fed 1H Battery

Location of Release Source

Please answer all the questions in this group.

Site Name	Black Pearl 1 Federal 1H
Date Release Discovered	04/03/2025
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Emergency services were not notified Release was confined to the well pad Facility has been cleared by safety personnel

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 453021

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 453021
	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)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Emergency services were not notified Release was confined to the well pad Facility has been cleared by safety personnel

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/17/2025
--	---

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 453021

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 453021
	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 453021

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 453021
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	4/22/2025

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 461447

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 461447
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509442530
Incident Name	NAPP2509442530 BLACK PEARL 1 FEDERAL 1H @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202756980] Black Pearl 1 Fed 1H Battery

Location of Release Source	
Site Name	Black Pearl 1 Federal 1H
Date Release Discovered	04/03/2025
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	289
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2025
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-6823
Please provide any information necessary for navigation to sampling site	32.609373, -103.509281

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 461447

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 461447
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jlaire	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/13/2025

APPENDIX D

CARMONA RESOURCES



Nearest water well

COG Operating

Legend

 0.50 Mile Radius

 0.89 Miles

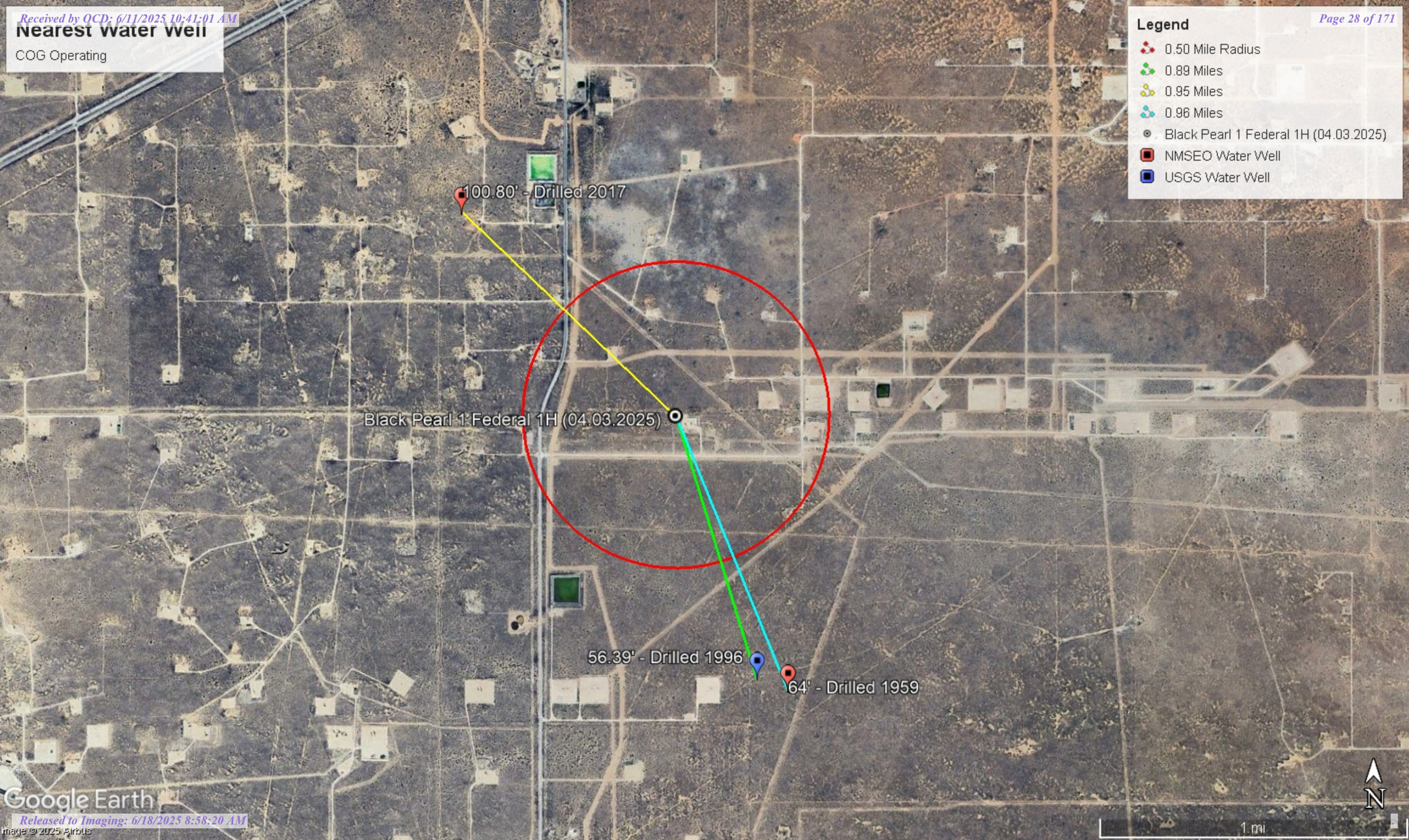
 0.95 Miles

 0.96 Miles

 Black Pearl 1 Federal 1H (04.03.2025)

 NMSEO Water Well

 USGS Water Well



Low Karst

COG Operating

Legend

- Black Pearl 1 Federal 1H (04.03.2025)
- Low

Black Pearl 1 Federal 1H (04.03.2025)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	(meters)	(In feet)		
													Distance	Well Depth	Depth Water	Water Column
L 04157		L	LE		SW	SW	06	20S	35E	640483.0	3607561.0 *		1533	70	64	6
CP 01672 POD1		CP	LE	NW	SW	NW	36	19S	34E	638735.9	3610009.6		1544	100		
CP 00683 POD1		CP	LE	SW	SW	SE	25	19S	34E	639530.0	3610685.0 *		1749	120	28	92
CP 00654 POD1		CP	LE		SE	SE	12	20S	34E	640103.0	3605947.0 *		3031	60		
L 15106 POD3		L	LE	NE	NW	NE	32	19S	35E	642875.2	3610512.5		3370	60	29	31
L 15106 POD4		L	LE	SE	NW	NE	32	19S	35E	642990.4	3610409.5		3429	61	25	36
L 14876 POD12		L	LE	NE	NW	NE	32	19S	35E	642973.7	3610515.5		3460			
L 14876 POD2		L	LE	NE	NW	NE	32	19S	35E	642991.9	3610483.4		3462	37	28	9
L 14876 POD8		L	LE	NE	NW	NE	32	19S	35E	642982.9	3610507.6		3464			
L 14876 POD13		L	LE	NE	NW	NE	32	19S	35E	642986.7	3610500.0		3464	27	24	3
L 14876 POD5		L	LE	NE	NW	NE	32	19S	35E	642980.8	3610531.3		3473	27	21	6
L 14876 POD1		L	LE	NE	NW	NE	32	19S	35E	643011.3	3610472.6		3474	25	0	25
L 14876 POD10		L	LE	NE	NW	NE	32	19S	35E	642998.2	3610500.1		3475			
L 14876 POD11		L	LE	NE	NW	NE	32	19S	35E	642989.5	3610522.8		3477			
L 14876 POD9		L	LE	NE	NW	NE	32	19S	35E	643000.4	3610508.5		3480			
L 14876 POD7		L	LE	NE	NW	NE	32	19S	35E	643000.0	3610515.6		3483	19	18	1
L 14876 POD4		L	LE	NE	NW	NE	32	19S	35E	643015.9	3610516.4		3498	22	20	2
L 14876 POD3		L	LE	NE	NW	NE	32	19S	35E	643014.1	3610535.2		3504	40		
L 14876 POD14		L	LE	NE	NW	NE	32	19S	35E	643023.3	3610529.4		3510			
L 15106 POD1		L	LE	NE	NW	NE	32	19S	35E	643002.4	3610606.5		3527	60	26	34
L 04158		L	LE		NE	SE	05	20S	35E	643290.0	3608008.0 *		3545	70	64	6
L 15106 POD2		L	LE	NW	NE	NE	32	19S	35E	643119.3	3610506.8		3587	60	30	30
L 08941		L	LE	NE	SW	SW	19	19S	35E	640509.6	3612523.3		3608	600	286	314

Average Depth to Water: 47 feet

Minimum Depth: 0 feet

Maximum Depth: 286 feet

Record Count: 23

UTM Filters (in meters):

Easting: 639878.00
Northing: 3608970.00
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

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

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 323536103301101

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

USGS 323536103301101 20S.35E.06.331332

Lea County, New Mexico
Latitude 32°35'50", Longitude 103°30'17" NAD27
Land-surface elevation 3,678.00 feet above NGVD29
The depth of the well is 70 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measured)
1961-03-08			D 62610		3619.30	NGVD29	1	Z		
1961-03-08			D 62611		3620.85	NAVD88	1	Z		
1961-03-08			D 72019	58.70			1	Z		
1971-01-21			D 62610		3620.42	NGVD29	1	Z		
1971-01-21			D 62611		3621.97	NAVD88	1	Z		
1971-01-21			D 72019	57.58			1	Z		
1976-02-19			D 62610		3616.76	NGVD29	1	Z		
1976-02-19			D 62611		3618.31	NAVD88	1	Z		
1976-02-19			D 72019	61.24			1	Z		
1986-04-02			D 62610		3621.09	NGVD29	1	Z		
1986-04-02			D 62611		3622.64	NAVD88	1	Z		
1986-04-02			D 72019	56.91			1	Z		
1991-07-03			D 62610		3623.77	NGVD29	1	Z		
1991-07-03			D 62611		3625.32	NAVD88	1	Z		
1991-07-03			D 72019	54.23			1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
1996-03-05	D	62610	3621.61	NGVD29	1	S	
1996-03-05	D	62611	3623.16	NAVD88	1	S	
1996-03-05	D	72019	56.39		1	S	

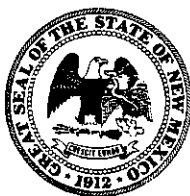
Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for New Mexico: Water Levels
URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=323536103301101&agency_cd=USGS&format=html)



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2025-04-07 08:46:01 EDT
0.36 0.26 nadww02



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE DEPARTMENT OFFICE
ROSWELL, NEW MEXICO

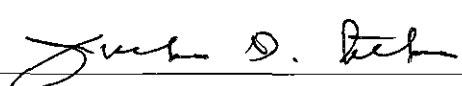
2017 SEP -6 PM 4: 05

OSE POD NO. (WELL NO.) POD 1 (Site BL-2)			WELL TAG ID NO. N/A			OSE FILE NO(S). CP-1672		
WELL OWNER NAME(S) Trainer Partners LTD c/o Atkins Engineering Assoc						PHONE (OPTIONAL)		
WELL OWNER MAILING ADDRESS 2904 W. 2nd Street						CITY STATE ZIP Roswell NM 88201		
WELL LOCATION (FROM GPS)		DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE			N			
		103		31	16.2	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins				NAME OF WELL DRILLING COMPANY Atkins Engineering Associates		
DRILLING STARTED 8/29/2017		DRILLING ENDED 8/29/2017		DEPTH OF COMPLETED WELL (FT) N/A		BORE HOLE DEPTH (FT) 100.80		DEPTH WATER FIRST ENCOUNTERED (FT) Dry
COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry		
DRILLING FLUID:		☒ AIR ☐ MUD		ADDITIVES - SPECIFY:		Switched to Air Rotary at 44 ft bgs		
DRILLING METHOD:		☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY:		Hollow Stem Auger (HSA) and Air Rotary				
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							
-	-	± 6.00	N/A	N/A	N/A	N/A	-	
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	10	±6.00	Baroid Hole Plug/Bentonite Chips	±2.1	from surface			
10	44	±6.00	Native Fill	±6.7	from surface			
44	100.80	±3.125	Native Fill	±3.6	from surface			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1672	POD NO.	1	TRN NO.	610609
LOCATION	19S.34E.36.131			WELL TAG ID NO.	—
					PAGE 1 OF 2

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	9		Sand, medium to coarse grain sand, fine roots, brown, dry	Y ✓ N	
9	19		Sandy loam, fine grain sand, light brown, dry	Y ✓ N	
19	20		Sand, very fine to fine grain sand, caliche streaks, brown, dry	Y ✓ N	
20	20.5		Caliche, tan, dry	Y ✓ N	
20.5	24		Sand, very fine to fine grain sand, caliche streaks, brown, dry	Y ✓ N	
24	29		Sandy loam, fine to medium grain sand, light brown, dry	Y ✓ N	
29	34		Sandy clay, fine grain sand, caliche streaks, brown, hard, dry	Y ✓ N	
34	44		Lean clay, brown, some black mottling, dry	Y ✓ N	
44	48		Clay, brown to red, hard, dry	Y ✓ N	
48	68		Sandy clay, coarse grain sand, 5-10mm rounded gravel, brown to red, hard, dry	Y ✓ N	
68	100.80		Clay, red to brown, hard, dry/*@ 88-93 ft bgs: some caliche streaks	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
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: Dry. Borehole was not converted to a monitoring well. See attached Plugging Record for details.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Guadalupe Leyba					
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 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
 SIGNATURE OF DRILLER / PRINT SIGNEE NAME			Jackie D. Atkins 09/06/2017 DATE		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. CP-1072	POD NO. 1	TRN NO. 610609
LOCATION 195.34E.36.131	WELL TAG ID NO. —	PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



oswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 610609
File Nbr: CP 01672
Well File Nbr: CP 01672 POD1

Sep. 19, 2017

ANDREW MARTIN, ATKINS ENGR ASSOC INC
TRAINER PARTNERS LTD
2904 W 2ND STREET
ROSWELL, NM 88201

Greetings:

The above numbered permit was issued in your name on 08/11/2017.

The Well Record was received in this office on 09/06/2017, stating that it had been completed on 08/29/2017, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/31/2018.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "Y Mendiola".

Yolanda Mendiola
(575) 622-6521

drywell

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 610609
File Nbr: CP 01672
Well File Nbr: CP 01672 POD1

Sep. 19, 2017

AUBREY DUNN, COMMISSIONER
NM COMMISSIONER OF PUBLIC LAND
PO BOX 1148
SANTA FE, NM 87504-1148

Greetings:

The above numbered permit was issued in your name on 08/11/2017.

The Well Record was received in this office on 09/06/2017, stating that it had been completed on 08/29/2017, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/31/2018.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "Y Mendiola".

Yolanda Mendiola
(575) 622-6521

drywell

SANTA FE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

	AM 8:51	
	JAN - 6	
1960	STATE ENGINEER OFFICE	SANTA FE, N.M.

(A) Owner of well Virgil Liman
Street and Number P. O. Box 743
City ~~Elizabethtown~~ Hobbs, State New Mexico
Well was drilled under Permit No. L-4157 and is located in the
1/4 SW 1/4 SW 1/4 of Section 6 Twp. 20 S Rge. 35 E
(B) Drilling Contractor W. L. Van Noy License No. WD-208
Street and Number P. O. Box 74
City Oil Center, State New Mexico
Drilling was commenced Dec. 12, 1959
Drilling was completed Dec. 13, 1959

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 70
State whether well is shallow or artesian Shallow Depth to water upon completion X 64

Section 2 PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	65	68	3	Course Water Sand
2				
3				
4				
5				

Section 3 RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
5		8	0	70	70		50	70

Section 4 RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5 PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____ Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____
FOR USE OF STATE ENGINEER ONLY
Date Received _____
1959 DEC 18 PM 8:30
File No. L-4157 Use Don Location No. 20.35.6.330

LOG OF WELL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

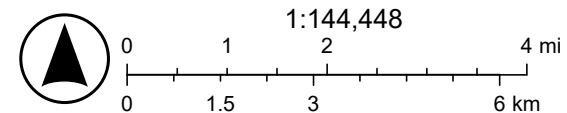
W. L. Van Tray
Well Driller

Black Pearl 1 Federal 1H (04.03.2025)



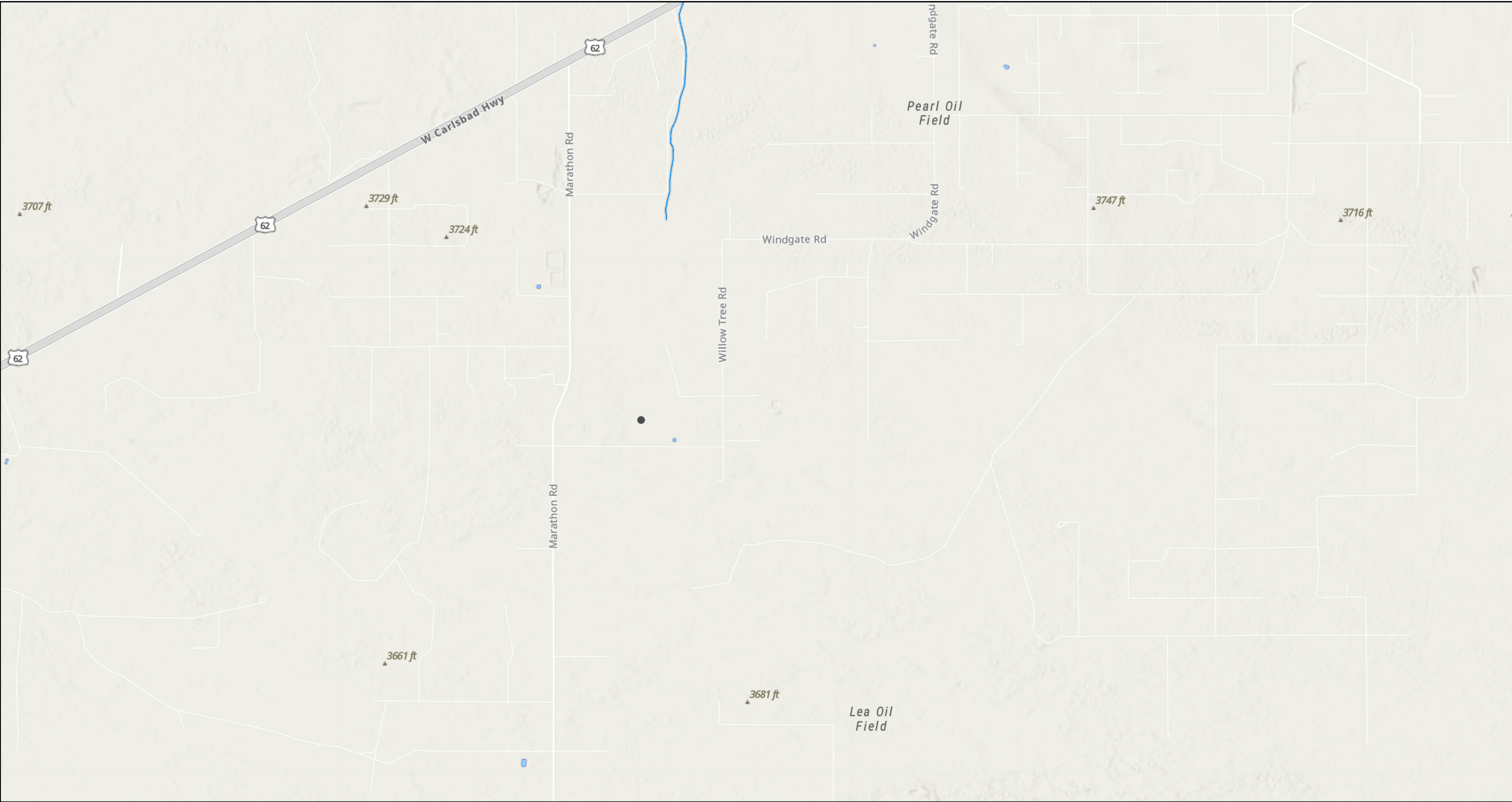
4/7/2025

World_Hillshade



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

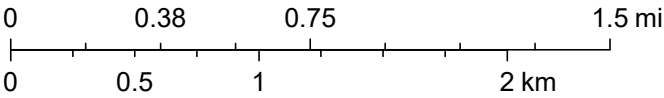
Black Pearl 1 Federal 1H (04.03.2025)



4/7/2025, 7:38:12 AM

- OSW Water Bodys
- OSE Streams

1:36,112



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 4/24/2025 10:50:11 PM

JOB DESCRIPTION

2698 Black Pearl 1 Federal 1H
Lea County, New Mexico

JOB NUMBER

880-57184-1

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
4/24/2025 10:50:11 PM

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

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Laboratory Job ID: 880-57184-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea 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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1

Job ID: 880-57184-1

Eurofins Midland

Job Narrative
880-57184-1

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 -1.4°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (1.5') (880-57184-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-1 (0-3") (880-57184-1), S-1 (6") (880-57184-2), S-1 (1') (880-57184-3), S-1 (1.5') (880-57184-4), S-1 (2') (880-57184-5), S-1 (3') (880-57184-6), S-2 (0-3") (880-57184-7), S-2 (6") (880-57184-8), S-2 (1') (880-57184-9), S-2 (1.5') (880-57184-10), S-2 (3') (880-57184-12), S-3 (0-3") (880-57184-13), S-3 (6") (880-57184-14), S-3 (1') (880-57184-15), S-3 (1.5') (880-57184-16), (CCV 880-108548/19), (CCV 880-108548/4), (LCS 880-108408/2-A), (LCSD 880-108408/3-A), (880-57183-A-4-D MS) and (880-57183-A-4-E MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108408 and analytical batch 880-108548 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 laboratory control sample duplicate (LCSD) for preparation batch 880-108408 and analytical batch 880-108548 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-3 (2') (880-57184-17), S-3 (3') (880-57184-18) and (CCV 880-108548/30). Percent recoveries are based on the amount spiked.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-108434 and analytical batch 880-108445 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57184-1

Date Collected: 04/16/25 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 11:32	04/23/25 17:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 17:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 17:38	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 11:32	04/23/25 17:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 17:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 11:32	04/23/25 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/23/25 11:32	04/23/25 17:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/23/25 11:32	04/23/25 17:38	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			04/23/25 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/24/25 14:07	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	<49.7	U *+ *1	49.7		mg/Kg		04/23/25 09:42	04/24/25 14:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+ *1	49.7		mg/Kg		04/23/25 09:42	04/24/25 14:07	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/23/25 09:42	04/24/25 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	62	S1-	70 - 130	04/23/25 09:42	04/24/25 14:07	1
o-Terphenyl (Surr)	63	S1-	70 - 130	04/23/25 09:42	04/24/25 14:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.3		10.1		mg/Kg			04/23/25 17:07	1

Client Sample ID: S-1 (6")

Lab Sample ID: 880-57184-2

Date Collected: 04/16/25 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	<0.00202	U	0.00202		mg/Kg		04/23/25 11:32	04/23/25 17:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/23/25 11:32	04/23/25 17:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/23/25 11:32	04/23/25 17:58	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		04/23/25 11:32	04/23/25 17:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/23/25 11:32	04/23/25 17:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/23/25 11:32	04/23/25 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/23/25 11:32	04/23/25 17:58	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/23/25 11:32	04/23/25 17:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (6")

Lab Sample ID: 880-57184-2

Date Collected: 04/16/25 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	<0.00404	U	0.00404		mg/Kg			04/23/25 17:58	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			04/24/25 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** *1	49.9		mg/Kg		04/23/25 09:42	04/24/25 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U ** *1	49.9		mg/Kg		04/23/25 09:42	04/24/25 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 09:42	04/24/25 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	62	S1-	70 - 130				04/23/25 09:42	04/24/25 14:27	1
o-Terphenyl (Surr)	64	S1-	70 - 130				04/23/25 09:42	04/24/25 14:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.3		9.96		mg/Kg			04/23/25 17:14	1

Client Sample ID: S-1 (1')

Lab Sample ID: 880-57184-3

Date Collected: 04/16/25 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 11:32	04/23/25 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 18:19	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 11:32	04/23/25 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 18:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 11:32	04/23/25 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/23/25 11:32	04/23/25 18:19	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/23/25 11:32	04/23/25 18:19	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			04/23/25 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.2		49.9		mg/Kg			04/24/25 14:48	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 ** *1	49.9		mg/Kg		04/23/25 09:42	04/24/25 14:48	1
Diesel Range Organics (Over C10-C28)	56.2	** *1	49.9		mg/Kg		04/23/25 09:42	04/24/25 14:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1')

Lab Sample ID: 880-57184-3

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/22/25 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)	<49.9	U	49.9		mg/Kg		04/23/25 09:42	04/24/25 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	60	S1-	70 - 130				04/23/25 09:42	04/24/25 14:48	1
o-Terphenyl (Surr)	60	S1-	70 - 130				04/23/25 09:42	04/24/25 14:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.2		9.92		mg/Kg			04/23/25 17:21	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-57184-4

Date Collected: 04/16/25 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 11:32	04/23/25 18:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:32	04/23/25 18:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:32	04/23/25 18:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 11:32	04/23/25 18:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:32	04/23/25 18:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 11:32	04/23/25 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	457	S1+	70 - 130				04/23/25 11:32	04/23/25 18:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130				04/23/25 11:32	04/23/25 18:39	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			04/23/25 18:39	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			04/24/25 15:08	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 ** *1	49.8		mg/Kg		04/23/25 09:42	04/24/25 15:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		04/23/25 09:42	04/24/25 15:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/23/25 09:42	04/24/25 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	63	S1-	70 - 130				04/23/25 09:42	04/24/25 15:08	1
o-Terphenyl (Surr)	66	S1-	70 - 130				04/23/25 09:42	04/24/25 15:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.7		10.1		mg/Kg			04/23/25 17:28	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-57184-5

Date Collected: 04/16/25 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 11:32	04/23/25 19:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:32	04/23/25 19:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:32	04/23/25 19:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 11:32	04/23/25 19:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:32	04/23/25 19:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 11:32	04/23/25 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/23/25 11:32	04/23/25 19:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/23/25 11:32	04/23/25 19:00	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			04/23/25 19:00	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			04/24/25 15:28	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 *+ *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 15:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 15:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	61	S1-	70 - 130	04/23/25 09:42	04/24/25 15:28	1
o-Terphenyl (Surr)	65	S1-	70 - 130	04/23/25 09:42	04/24/25 15:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.2		9.94		mg/Kg			04/23/25 17:35	1

Client Sample ID: S-1 (3')

Lab Sample ID: 880-57184-6

Date Collected: 04/16/25 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 11:32	04/23/25 19:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 19:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 19:20	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 11:32	04/23/25 19:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:32	04/23/25 19:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 11:32	04/23/25 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/23/25 11:32	04/23/25 19:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/23/25 11:32	04/23/25 19:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (3')

Lab Sample ID: 880-57184-6

Date Collected: 04/16/25 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	<0.00399	U	0.00399		mg/Kg			04/23/25 19:20	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			04/24/25 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U ** *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	62	S1-	70 - 130				04/23/25 09:42	04/24/25 15:49	1
o-Terphenyl (Surr)	64	S1-	70 - 130				04/23/25 09:42	04/24/25 15:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		9.98		mg/Kg			04/23/25 17:43	1

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

Lab Sample ID: 880-57184-7

Date Collected: 04/16/25 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 12:58	04/23/25 17:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 17:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 17:01	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 12:58	04/23/25 17:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 17:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 12:58	04/23/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				04/23/25 12:58	04/23/25 17:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/23/25 12:58	04/23/25 17:01	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			04/23/25 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/24/25 16:09	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 ** *1	50.1		mg/Kg		04/23/25 09:42	04/24/25 16:09	1
Diesel Range Organics (Over C10-C28)	<50.1	U ** *1	50.1		mg/Kg		04/23/25 09:42	04/24/25 16:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57184-7

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/22/25 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 09:42	04/24/25 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	57	S1-	70 - 130				04/23/25 09:42	04/24/25 16:09	1
o-Terphenyl (Surr)	57	S1-	70 - 130				04/23/25 09:42	04/24/25 16:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.5		9.92		mg/Kg			04/23/25 18:04	1

Client Sample ID: S-2 (6")

Lab Sample ID: 880-57184-8

Date Collected: 04/16/25 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 12:58	04/23/25 17:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 17:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 17:21	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 12:58	04/23/25 17:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 17:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 12:58	04/23/25 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				04/23/25 12:58	04/23/25 17:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/23/25 12:58	04/23/25 17:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/23/25 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.1		50.1		mg/Kg			04/24/25 16:30	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 ** *1	50.1		mg/Kg		04/23/25 09:42	04/24/25 16:30	1
Diesel Range Organics (Over C10-C28)	65.1	** *1	50.1		mg/Kg		04/23/25 09:42	04/24/25 16:30	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/23/25 09:42	04/24/25 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	54	S1-	70 - 130				04/23/25 09:42	04/24/25 16:30	1
o-Terphenyl (Surr)	54	S1-	70 - 130				04/23/25 09:42	04/24/25 16:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		9.98		mg/Kg			04/23/25 18:11	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1')

Lab Sample ID: 880-57184-9

Date Collected: 04/16/25 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	<0.00202	U	0.00202		mg/Kg		04/23/25 12:58	04/23/25 17:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/23/25 12:58	04/23/25 17:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/23/25 12:58	04/23/25 17:42	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		04/23/25 12:58	04/23/25 17:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/23/25 12:58	04/23/25 17:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/23/25 12:58	04/23/25 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	04/23/25 12:58	04/23/25 17:42	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/23/25 12:58	04/23/25 17:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/23/25 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	247		50.2		mg/Kg			04/24/25 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U ** *1	50.2		mg/Kg		04/23/25 09:42	04/24/25 17:11	1
Diesel Range Organics (Over C10-C28)	164	** *1	50.2		mg/Kg		04/23/25 09:42	04/24/25 17:11	1
Oil Range Organics (Over C28-C36)	83.1		50.2		mg/Kg		04/23/25 09:42	04/24/25 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	60	S1-	70 - 130	04/23/25 09:42	04/24/25 17:11	1
o-Terphenyl (Surr)	60	S1-	70 - 130	04/23/25 09:42	04/24/25 17:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.2		9.92		mg/Kg			04/23/25 18:33	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-57184-10

Date Collected: 04/16/25 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 12:58	04/23/25 18:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 18:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 18:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 12:58	04/23/25 18:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 18:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 12:58	04/23/25 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	04/23/25 12:58	04/23/25 18:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/23/25 12:58	04/23/25 18:02	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-57184-10

Date Collected: 04/16/25 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	<0.00399	U	0.00399		mg/Kg			04/23/25 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.9		50.0		mg/Kg			04/24/25 17:31	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 *+ *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 17:31	1
Diesel Range Organics (Over C10-C28)	54.9	*+ *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 17:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	59	S1-	70 - 130				04/23/25 09:42	04/24/25 17:31	1
o-Terphenyl (Surr)	60	S1-	70 - 130				04/23/25 09:42	04/24/25 17:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.7		10.1		mg/Kg			04/23/25 18:40	1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-57184-11

Date Collected: 04/16/25 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 12:58	04/23/25 18:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 18:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 18:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 12:58	04/23/25 18:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 18:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 12:58	04/23/25 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				04/23/25 12:58	04/23/25 18:23	1
1,4-Difluorobenzene (Surr)	84		70 - 130				04/23/25 12:58	04/23/25 18:23	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			04/23/25 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/24/25 18:30	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 *+ *1	49.7		mg/Kg		04/23/25 09:42	04/24/25 18:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+ *1	49.7		mg/Kg		04/23/25 09:42	04/24/25 18:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')

Lab Sample ID: 880-57184-11

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/22/25 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 09:42	04/24/25 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130				04/23/25 09:42	04/24/25 18:30	1
o-Terphenyl (Surr)	75		70 - 130				04/23/25 09:42	04/24/25 18:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.2		9.94		mg/Kg			04/23/25 18:47	1

Client Sample ID: S-2 (3')

Lab Sample ID: 880-57184-12

Date Collected: 04/16/25 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 12:58	04/23/25 18:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 18:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 18:43	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 12:58	04/23/25 18:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 12:58	04/23/25 18:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 12:58	04/23/25 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/23/25 12:58	04/23/25 18:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/23/25 12:58	04/23/25 18:43	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			04/23/25 18:43	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			04/24/25 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	<49.8	U ** *1	49.8		mg/Kg		04/23/25 09:42	04/24/25 18:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		04/23/25 09:42	04/24/25 18:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/23/25 09:42	04/24/25 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130				04/23/25 09:42	04/24/25 18:50	1
o-Terphenyl (Surr)	72		70 - 130				04/23/25 09:42	04/24/25 18:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.0		9.98		mg/Kg			04/23/25 18:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57184-13

Date Collected: 04/16/25 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 12:58	04/23/25 19:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 19:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 19:04	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 12:58	04/23/25 19:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 12:58	04/23/25 19:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 12:58	04/23/25 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	04/23/25 12:58	04/23/25 19:04	1
1,4-Difluorobenzene (Surr)	75		70 - 130	04/23/25 12:58	04/23/25 19:04	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			04/23/25 19:04	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			04/24/25 19:10	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 *+ *1	49.9		mg/Kg		04/23/25 09:42	04/24/25 19:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		04/23/25 09:42	04/24/25 19:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 09:42	04/24/25 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130	04/23/25 09:42	04/24/25 19:10	1
o-Terphenyl (Surr)	66	S1-	70 - 130	04/23/25 09:42	04/24/25 19:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.7		10.0		mg/Kg			04/23/25 19:01	1

Client Sample ID: S-3 (6")

Lab Sample ID: 880-57184-14

Date Collected: 04/16/25 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 13:03	04/23/25 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:25	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 13:03	04/23/25 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 13:03	04/23/25 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/23/25 13:03	04/23/25 22:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/23/25 13:03	04/23/25 22:25	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (6")

Lab Sample ID: 880-57184-14

Date Collected: 04/16/25 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	<0.00399	U	0.00399		mg/Kg			04/23/25 22:25	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			04/24/25 19:30	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 ** *1	50.2		mg/Kg		04/23/25 09:42	04/24/25 19:30	1
Diesel Range Organics (Over C10-C28)	<50.2	U ** *1	50.2		mg/Kg		04/23/25 09:42	04/24/25 19:30	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/23/25 09:42	04/24/25 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130				04/23/25 09:42	04/24/25 19:30	1
o-Terphenyl (Surr)	68	S1-	70 - 130				04/23/25 09:42	04/24/25 19:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.1		9.94		mg/Kg			04/23/25 19:09	1

Client Sample ID: S-3 (1')

Lab Sample ID: 880-57184-15

Date Collected: 04/16/25 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 13:03	04/23/25 22:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:46	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		04/23/25 13:03	04/23/25 22:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/23/25 13:03	04/23/25 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/23/25 13:03	04/23/25 22:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/23/25 13:03	04/23/25 22:46	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			04/23/25 22:46	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			04/24/25 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 ** *1	50.1		mg/Kg		04/23/25 09:42	04/24/25 19:51	1
Diesel Range Organics (Over C10-C28)	<50.1	U ** *1	50.1		mg/Kg		04/23/25 09:42	04/24/25 19:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1')

Lab Sample ID: 880-57184-15

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/22/25 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 09:42	04/24/25 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	50	S1-	70 - 130				04/23/25 09:42	04/24/25 19:51	1
o-Terphenyl (Surr)	50	S1-	70 - 130				04/23/25 09:42	04/24/25 19:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.4		9.92		mg/Kg			04/23/25 19:16	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-57184-16

Date Collected: 04/16/25 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 13:03	04/23/25 23:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:03	04/23/25 23:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:03	04/23/25 23:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 13:03	04/23/25 23:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:03	04/23/25 23:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 13:03	04/23/25 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/23/25 13:03	04/23/25 23:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/23/25 13:03	04/23/25 23:06	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			04/23/25 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/25 20:12	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 ** *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	61	S1-	70 - 130				04/23/25 09:42	04/24/25 20:12	1
o-Terphenyl (Surr)	62	S1-	70 - 130				04/23/25 09:42	04/24/25 20:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		9.96		mg/Kg			04/23/25 22:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2')

Lab Sample ID: 880-57184-17

Date Collected: 04/16/25 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 13:03	04/23/25 23:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:03	04/23/25 23:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:03	04/23/25 23:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 13:03	04/23/25 23:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 13:03	04/23/25 23:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 13:03	04/23/25 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/23/25 13:03	04/23/25 23:27	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/23/25 13:03	04/23/25 23:27	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			04/23/25 23:27	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			04/24/25 20:32	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 *+ *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 20:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 20:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130	04/23/25 09:42	04/24/25 20:32	1
o-Terphenyl (Surr)	66	S1-	70 - 130	04/23/25 09:42	04/24/25 20:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		10.0		mg/Kg			04/23/25 22:49	1

Client Sample ID: S-3 (3')

Lab Sample ID: 880-57184-18

Date Collected: 04/16/25 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 13:03	04/23/25 23:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 23:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 23:47	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 13:03	04/23/25 23:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 23:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 13:03	04/23/25 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/23/25 13:03	04/23/25 23:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/23/25 13:03	04/23/25 23:47	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (3')

Lab Sample ID: 880-57184-18

Date Collected: 04/16/25 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	<0.00399	U	0.00399		mg/Kg			04/23/25 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/24/25 20:53	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 *+ *1	49.8		mg/Kg		04/23/25 09:42	04/24/25 20:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		04/23/25 09:42	04/24/25 20:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/23/25 09:42	04/24/25 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130	04/23/25 09:42	04/24/25 20:53	1
o-Terphenyl (Surr)	70		70 - 130	04/23/25 09:42	04/24/25 20:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		10.0		mg/Kg			04/23/25 22:56	1

Surrogate Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea 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)
880-57184-1	S-1 (0-3")	107	101
880-57184-2	S-1 (6")	105	101
880-57184-3	S-1 (1')	101	102
880-57184-4	S-1 (1.5')	457 S1+	100
880-57184-5	S-1 (2')	109	100
880-57184-6	S-1 (3')	107	102
880-57184-7	S-2 (0-3")	87	99
880-57184-8	S-2 (6")	82	99
880-57184-9	S-2 (1')	86	84
880-57184-10	S-2 (1.5')	80	96
880-57184-11	S-2 (2')	93	84
880-57184-12	S-2 (3')	85	98
880-57184-13	S-3 (0-3")	89	75
880-57184-14	S-3 (6")	102	97
880-57184-14 MS	S-3 (6")	98	100
880-57184-14 MSD	S-3 (6")	101	100
880-57184-15	S-3 (1')	104	98
880-57184-16	S-3 (1.5')	103	99
880-57184-17	S-3 (2')	104	99
880-57184-18	S-3 (3')	109	97
890-8021-A-24-B MS	Matrix Spike	104	94
890-8021-A-24-C MSD	Matrix Spike Duplicate	109	108
890-8021-A-37-B MS	Matrix Spike	97	102
890-8021-A-37-C MSD	Matrix Spike Duplicate	100	101
LCS 880-108386/1-A	Lab Control Sample	110	110
LCS 880-108388/1-A	Lab Control Sample	99	100
LCS 880-108442/1-A	Lab Control Sample	98	100
LCSD 880-108386/2-A	Lab Control Sample Dup	108	105
LCSD 880-108388/2-A	Lab Control Sample Dup	99	101
LCSD 880-108442/2-A	Lab Control Sample Dup	100	101
MB 880-108382/5-A	Method Blank	101	93
MB 880-108386/5-A	Method Blank	84	96
MB 880-108388/5-A	Method Blank	100	94
MB 880-108442/5-A	Method Blank	98	96

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)
880-57183-A-4-D MS	Matrix Spike	70	64 S1-
880-57183-A-4-E MSD	Matrix Spike Duplicate	69 S1-	64 S1-
880-57184-1	S-1 (0-3")	62 S1-	63 S1-
880-57184-2	S-1 (6")	62 S1-	64 S1-
880-57184-3	S-1 (1')	60 S1-	60 S1-

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-57184-1

Project/Site: 2698 Black Pearl 1 Federal 1H

SDG: Lea 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)
880-57184-4	S-1 (1.5')	63 S1-	66 S1-
880-57184-5	S-1 (2')	61 S1-	65 S1-
880-57184-6	S-1 (3')	62 S1-	64 S1-
880-57184-7	S-2 (0-3")	57 S1-	57 S1-
880-57184-8	S-2 (6")	54 S1-	54 S1-
880-57184-9	S-2 (1')	60 S1-	60 S1-
880-57184-10	S-2 (1.5')	59 S1-	60 S1-
880-57184-11	S-2 (2')	73	75
880-57184-12	S-2 (3')	68 S1-	72
880-57184-13	S-3 (0-3")	64 S1-	66 S1-
880-57184-14	S-3 (6")	65 S1-	68 S1-
880-57184-15	S-3 (1')	50 S1-	50 S1-
880-57184-16	S-3 (1.5')	61 S1-	62 S1-
880-57184-17	S-3 (2')	64 S1-	66 S1-
880-57184-18	S-3 (3')	67 S1-	70
LCS 880-108408/2-A	Lab Control Sample	19 S1-	14 S1-
LCSD 880-108408/3-A	Lab Control Sample Dup	29 S1-	22 S1-
MB 880-108408/1-A	Method Blank	106	107

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108382/5-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 08:37	04/23/25 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/23/25 08:37	04/23/25 11:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/23/25 08:37	04/23/25 11:03	1

Lab Sample ID: MB 880-108386/5-A

Matrix: Solid

Analysis Batch: 108291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:42	04/23/25 11:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:42	04/23/25 11:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:42	04/23/25 11:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/23/25 08:42	04/23/25 11:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:42	04/23/25 11:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 08:42	04/23/25 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/23/25 08:42	04/23/25 11:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/23/25 08:42	04/23/25 11:09	1

Lab Sample ID: LCS 880-108386/1-A

Matrix: Solid

Analysis Batch: 108291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1001		mg/Kg		100	70 - 130
Toluene	0.100	0.09179		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.1172		mg/Kg		117	70 - 130
m,p-Xylenes	0.200	0.2149		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1086		mg/Kg		109	70 - 130

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

Lab Sample ID: LCSD 880-108386/2-A

Matrix: Solid

Analysis Batch: 108291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108386

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1064		mg/Kg		106	70 - 130	6	35

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-108386/2-A

Matrix: Solid

Analysis Batch: 108291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108386

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.09800		mg/Kg		98	70 - 130		7	35
Ethylbenzene	0.100	0.1283		mg/Kg		128	70 - 130		9	35
m,p-Xylenes	0.200	0.2330		mg/Kg		117	70 - 130		8	35
o-Xylene	0.100	0.1177		mg/Kg		118	70 - 130		8	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-8021-A-24-B MS

Matrix: Solid

Analysis Batch: 108291

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00200	U	0.100	0.09755		mg/Kg		98	70 - 130	
Toluene	<0.00200	U	0.100	0.09381		mg/Kg		94	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.1142		mg/Kg		114	70 - 130	
m,p-Xylenes	<0.00399	U	0.200	0.2085		mg/Kg		104	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1038		mg/Kg		104	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-8021-A-24-C MSD

Matrix: Solid

Analysis Batch: 108291

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00200	U	0.100	0.09345		mg/Kg		93	70 - 130		4	35
Toluene	<0.00200	U	0.100	0.08694		mg/Kg		87	70 - 130		8	35
Ethylbenzene	<0.00200	U	0.100	0.1106		mg/Kg		111	70 - 130		3	35
m,p-Xylenes	<0.00399	U	0.200	0.2020		mg/Kg		101	70 - 130		3	35
o-Xylene	<0.00200	U	0.100	0.1010		mg/Kg		101	70 - 130		3	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-108388/5-A

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108388

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/23/25 08:43	04/23/25 11:15	1

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-108388/5-A

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 08:43	04/23/25 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/23/25 08:43	04/23/25 11:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/23/25 08:43	04/23/25 11:15	1

Lab Sample ID: LCS 880-108388/1-A

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09190		mg/Kg		92	70 - 130
Toluene	0.100	0.08658		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09126		mg/Kg		91	70 - 130
m,p-Xylenes	0.200	0.1854		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09322		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-108388/2-A

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108388

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09719		mg/Kg		97	70 - 130	6	35
Toluene	0.100	0.09155		mg/Kg		92	70 - 130	6	35
Ethylbenzene	0.100	0.09584		mg/Kg		96	70 - 130	5	35
m,p-Xylenes	0.200	0.1936		mg/Kg		97	70 - 130	4	35
o-Xylene	0.100	0.09738		mg/Kg		97	70 - 130	4	35

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

Lab Sample ID: 890-8021-A-37-B MS

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09224		mg/Kg		92	70 - 130
Toluene	<0.00200	U	0.100	0.08794		mg/Kg		88	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08984		mg/Kg		90	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1801		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.100	0.09050		mg/Kg		90	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-8021-A-37-B MS

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108388

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-8021-A-37-C MSD

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108388

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	0.09052		mg/Kg		91	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.08644		mg/Kg		86	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.08869		mg/Kg		89	70 - 130	1	35
m,p-Xylenes	<0.00399	U	0.200	0.1784		mg/Kg		89	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.08979		mg/Kg		90	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-108442/5-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 13:03	04/23/25 22:03	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	98		70 - 130	04/23/25 13:03	04/23/25 22:03	1			
1,4-Difluorobenzene (Surr)	96		70 - 130	04/23/25 13:03	04/23/25 22:03	1			

Lab Sample ID: LCS 880-108442/1-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09767		mg/Kg		98	70 - 130
Toluene	0.100	0.08784		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09030		mg/Kg		90	70 - 130
m,p-Xylenes	0.200	0.1825		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09411		mg/Kg		94	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-108442/1-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108442

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

Lab Sample ID: LCSD 880-108442/2-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108442

	LCS	LCS							%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.09970		mg/Kg		100	70 - 130	2	35		
Toluene	0.100	0.08987		mg/Kg		90	70 - 130	2	35		
Ethylbenzene	0.100	0.09324		mg/Kg		93	70 - 130	3	35		
m,p-Xylenes	0.200	0.1912		mg/Kg		96	70 - 130	5	35		
o-Xylene	0.100	0.09858		mg/Kg		99	70 - 130	5	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-57184-14 MS

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: S-3 (6")

Prep Type: Total/NA

Prep Batch: 108442

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.100	0.09586		mg/Kg		96	70 - 130		
Toluene	<0.00200	U	0.100	0.08448		mg/Kg		84	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08508		mg/Kg		85	70 - 130		
m,p-Xylenes	<0.00399	U	0.200	0.1706		mg/Kg		85	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08744		mg/Kg		87	70 - 130		

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

Lab Sample ID: 880-57184-14 MSD

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: S-3 (6")

Prep Type: Total/NA

Prep Batch: 108442

	Sample	Sample	Spike	MSD	MSD				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09859		mg/Kg		99	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08677		mg/Kg		87	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.08916		mg/Kg		89	70 - 130	5	35
m,p-Xylenes	<0.00399	U	0.200	0.1798		mg/Kg		90	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.09185		mg/Kg		92	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-108408/1-A

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108408

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 09:42	04/24/25 09:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 09:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 09:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130				04/23/25 09:42	04/24/25 09:07	1
o-Terphenyl (Surr)	107		70 - 130				04/23/25 09:42	04/24/25 09:07	1

Lab Sample ID: LCS 880-108408/2-A

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1061		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1114		mg/Kg		111	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	19	S1-	70 - 130				
o-Terphenyl (Surr)	14	S1-	70 - 130				

Lab Sample ID: LCSD 880-108408/3-A

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108408

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1438	*+ *1	mg/Kg		144	70 - 130	30	20
Diesel Range Organics (Over C10-C28)	1000	1662	*+ *1	mg/Kg		166	70 - 130	39	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	29	S1-	70 - 130						
o-Terphenyl (Surr)	22	S1-	70 - 130						

Lab Sample ID: 880-57183-A-4-D MS

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108408

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 *+ *1	1010	916.3		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1 F1	1010	572.5	F1	mg/Kg		52	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57183-A-4-D MS

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108408

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	70		70 - 130
o-Terphenyl (Surr)	64	S1-	70 - 130

Lab Sample ID: 880-57183-A-4-E MSD

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108408

	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 ** *1	1010	921.1		mg/Kg		88	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	<50.1	U ** *1 F1	1010	576.4	F1	mg/Kg		53	70 - 130	1	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	69	S1-	70 - 130
o-Terphenyl (Surr)	64	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108410/1-A

Matrix: Solid

Analysis Batch: 108427

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			04/23/25 15:41	1		

Lab Sample ID: LCS 880-108410/2-A

Matrix: Solid

Analysis Batch: 108427

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	241.7		mg/Kg		97	90 - 110			

Lab Sample ID: LCSD 880-108410/3-A

Matrix: Solid

Analysis Batch: 108427

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Chloride	250	242.2		mg/Kg		97	90 - 110	0	20		

Lab Sample ID: 880-57184-6 MS

Matrix: Solid

Analysis Batch: 108427

Client Sample ID: S-1 (3')

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	100		250	346.9		mg/Kg		99	90 - 110		

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-57184-6 MSD

Matrix: Solid

Analysis Batch: 108427

Client Sample ID: S-1 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		250	350.2		mg/Kg		100	90 - 110	1	20

Lab Sample ID: MB 880-108434/1-A

Matrix: Solid

Analysis Batch: 108445

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			04/23/25 21:19	1

Lab Sample ID: LCS 880-108434/2-A

Matrix: Solid

Analysis Batch: 108445

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	270.6		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-108434/3-A

Matrix: Solid

Analysis Batch: 108445

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	269.1		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-57211-A-4-C MS

Matrix: Solid

Analysis Batch: 108445

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	1440		249	1678	E 4	mg/Kg		96	90 - 110

Lab Sample ID: 880-57211-A-4-D MSD

Matrix: Solid

Analysis Batch: 108445

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	1440		249	1683	E 4	mg/Kg		98	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 108291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-7	S-2 (0-3")	Total/NA	Solid	8021B	108386
880-57184-8	S-2 (6")	Total/NA	Solid	8021B	108386
880-57184-9	S-2 (1')	Total/NA	Solid	8021B	108386
880-57184-10	S-2 (1.5')	Total/NA	Solid	8021B	108386
880-57184-11	S-2 (2')	Total/NA	Solid	8021B	108386
880-57184-12	S-2 (3')	Total/NA	Solid	8021B	108386
880-57184-13	S-3 (0-3")	Total/NA	Solid	8021B	108386
MB 880-108386/5-A	Method Blank	Total/NA	Solid	8021B	108386
LCS 880-108386/1-A	Lab Control Sample	Total/NA	Solid	8021B	108386
LCSD 880-108386/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108386
890-8021-A-24-B MS	Matrix Spike	Total/NA	Solid	8021B	108386
890-8021-A-24-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	108386

Analysis Batch: 108372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-14	S-3 (6")	Total/NA	Solid	8021B	108442
880-57184-15	S-3 (1')	Total/NA	Solid	8021B	108442
880-57184-16	S-3 (1.5')	Total/NA	Solid	8021B	108442
880-57184-17	S-3 (2')	Total/NA	Solid	8021B	108442
880-57184-18	S-3 (3')	Total/NA	Solid	8021B	108442
MB 880-108382/5-A	Method Blank	Total/NA	Solid	8021B	108382
MB 880-108442/5-A	Method Blank	Total/NA	Solid	8021B	108442
LCS 880-108442/1-A	Lab Control Sample	Total/NA	Solid	8021B	108442
LCSD 880-108442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108442
880-57184-14 MS	S-3 (6")	Total/NA	Solid	8021B	108442
880-57184-14 MSD	S-3 (6")	Total/NA	Solid	8021B	108442

Analysis Batch: 108374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-1	S-1 (0-3")	Total/NA	Solid	8021B	108388
880-57184-2	S-1 (6")	Total/NA	Solid	8021B	108388
880-57184-3	S-1 (1')	Total/NA	Solid	8021B	108388
880-57184-4	S-1 (1.5')	Total/NA	Solid	8021B	108388
880-57184-5	S-1 (2')	Total/NA	Solid	8021B	108388
880-57184-6	S-1 (3')	Total/NA	Solid	8021B	108388
MB 880-108388/5-A	Method Blank	Total/NA	Solid	8021B	108388
LCS 880-108388/1-A	Lab Control Sample	Total/NA	Solid	8021B	108388
LCSD 880-108388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108388
890-8021-A-37-B MS	Matrix Spike	Total/NA	Solid	8021B	108388
890-8021-A-37-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	108388

Prep Batch: 108382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108382/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 108386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-7	S-2 (0-3")	Total/NA	Solid	5035	
880-57184-8	S-2 (6")	Total/NA	Solid	5035	
880-57184-9	S-2 (1')	Total/NA	Solid	5035	
880-57184-10	S-2 (1.5')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 108386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-11	S-2 (2')	Total/NA	Solid	5035	
880-57184-12	S-2 (3')	Total/NA	Solid	5035	
880-57184-13	S-3 (0-3")	Total/NA	Solid	5035	
MB 880-108386/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108386/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108386/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8021-A-24-B MS	Matrix Spike	Total/NA	Solid	5035	
890-8021-A-24-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 108388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-1	S-1 (0-3")	Total/NA	Solid	5035	
880-57184-2	S-1 (6")	Total/NA	Solid	5035	
880-57184-3	S-1 (1')	Total/NA	Solid	5035	
880-57184-4	S-1 (1.5')	Total/NA	Solid	5035	
880-57184-5	S-1 (2')	Total/NA	Solid	5035	
880-57184-6	S-1 (3')	Total/NA	Solid	5035	
MB 880-108388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8021-A-37-B MS	Matrix Spike	Total/NA	Solid	5035	
890-8021-A-37-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 108442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-14	S-3 (6")	Total/NA	Solid	5035	
880-57184-15	S-3 (1')	Total/NA	Solid	5035	
880-57184-16	S-3 (1.5')	Total/NA	Solid	5035	
880-57184-17	S-3 (2')	Total/NA	Solid	5035	
880-57184-18	S-3 (3')	Total/NA	Solid	5035	
MB 880-108442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57184-14 MS	S-3 (6")	Total/NA	Solid	5035	
880-57184-14 MSD	S-3 (6")	Total/NA	Solid	5035	

Analysis Batch: 108550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-1	S-1 (0-3")	Total/NA	Solid	Total BTEX	
880-57184-2	S-1 (6")	Total/NA	Solid	Total BTEX	
880-57184-3	S-1 (1')	Total/NA	Solid	Total BTEX	
880-57184-4	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-57184-5	S-1 (2')	Total/NA	Solid	Total BTEX	
880-57184-6	S-1 (3')	Total/NA	Solid	Total BTEX	
880-57184-7	S-2 (0-3")	Total/NA	Solid	Total BTEX	
880-57184-8	S-2 (6")	Total/NA	Solid	Total BTEX	
880-57184-9	S-2 (1')	Total/NA	Solid	Total BTEX	
880-57184-10	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-57184-11	S-2 (2')	Total/NA	Solid	Total BTEX	
880-57184-12	S-2 (3')	Total/NA	Solid	Total BTEX	
880-57184-13	S-3 (0-3")	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 108550 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-14	S-3 (6")	Total/NA	Solid	Total BTEX	
880-57184-15	S-3 (1')	Total/NA	Solid	Total BTEX	
880-57184-16	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-57184-17	S-3 (2')	Total/NA	Solid	Total BTEX	
880-57184-18	S-3 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-1	S-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-57184-2	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-57184-3	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-57184-4	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-57184-5	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-57184-6	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-57184-7	S-2 (0-3")	Total/NA	Solid	8015NM Prep	
880-57184-8	S-2 (6")	Total/NA	Solid	8015NM Prep	
880-57184-9	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-57184-10	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-57184-11	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-57184-12	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-57184-13	S-3 (0-3")	Total/NA	Solid	8015NM Prep	
880-57184-14	S-3 (6")	Total/NA	Solid	8015NM Prep	
880-57184-15	S-3 (1')	Total/NA	Solid	8015NM Prep	
880-57184-16	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-57184-17	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-57184-18	S-3 (3')	Total/NA	Solid	8015NM Prep	
MB 880-108408/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108408/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108408/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57183-A-4-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57183-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 108548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-1	S-1 (0-3")	Total/NA	Solid	8015B NM	108408
880-57184-2	S-1 (6")	Total/NA	Solid	8015B NM	108408
880-57184-3	S-1 (1')	Total/NA	Solid	8015B NM	108408
880-57184-4	S-1 (1.5')	Total/NA	Solid	8015B NM	108408
880-57184-5	S-1 (2')	Total/NA	Solid	8015B NM	108408
880-57184-6	S-1 (3')	Total/NA	Solid	8015B NM	108408
880-57184-7	S-2 (0-3")	Total/NA	Solid	8015B NM	108408
880-57184-8	S-2 (6")	Total/NA	Solid	8015B NM	108408
880-57184-9	S-2 (1')	Total/NA	Solid	8015B NM	108408
880-57184-10	S-2 (1.5')	Total/NA	Solid	8015B NM	108408
880-57184-11	S-2 (2')	Total/NA	Solid	8015B NM	108408
880-57184-12	S-2 (3')	Total/NA	Solid	8015B NM	108408
880-57184-13	S-3 (0-3")	Total/NA	Solid	8015B NM	108408
880-57184-14	S-3 (6")	Total/NA	Solid	8015B NM	108408
880-57184-15	S-3 (1')	Total/NA	Solid	8015B NM	108408

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 108548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-16	S-3 (1.5')	Total/NA	Solid	8015B NM	108408
880-57184-17	S-3 (2')	Total/NA	Solid	8015B NM	108408
880-57184-18	S-3 (3')	Total/NA	Solid	8015B NM	108408
MB 880-108408/1-A	Method Blank	Total/NA	Solid	8015B NM	108408
LCS 880-108408/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108408
LCSD 880-108408/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108408
880-57183-A-4-D MS	Matrix Spike	Total/NA	Solid	8015B NM	108408
880-57183-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	108408

Analysis Batch: 108618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-1	S-1 (0-3")	Total/NA	Solid	8015 NM	
880-57184-2	S-1 (6")	Total/NA	Solid	8015 NM	
880-57184-3	S-1 (1')	Total/NA	Solid	8015 NM	
880-57184-4	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-57184-5	S-1 (2')	Total/NA	Solid	8015 NM	
880-57184-6	S-1 (3')	Total/NA	Solid	8015 NM	
880-57184-7	S-2 (0-3")	Total/NA	Solid	8015 NM	
880-57184-8	S-2 (6")	Total/NA	Solid	8015 NM	
880-57184-9	S-2 (1')	Total/NA	Solid	8015 NM	
880-57184-10	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-57184-11	S-2 (2')	Total/NA	Solid	8015 NM	
880-57184-12	S-2 (3')	Total/NA	Solid	8015 NM	
880-57184-13	S-3 (0-3")	Total/NA	Solid	8015 NM	
880-57184-14	S-3 (6")	Total/NA	Solid	8015 NM	
880-57184-15	S-3 (1')	Total/NA	Solid	8015 NM	
880-57184-16	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-57184-17	S-3 (2')	Total/NA	Solid	8015 NM	
880-57184-18	S-3 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 108410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-1	S-1 (0-3")	Soluble	Solid	DI Leach	
880-57184-2	S-1 (6")	Soluble	Solid	DI Leach	
880-57184-3	S-1 (1')	Soluble	Solid	DI Leach	
880-57184-4	S-1 (1.5')	Soluble	Solid	DI Leach	
880-57184-5	S-1 (2')	Soluble	Solid	DI Leach	
880-57184-6	S-1 (3')	Soluble	Solid	DI Leach	
880-57184-7	S-2 (0-3")	Soluble	Solid	DI Leach	
880-57184-8	S-2 (6")	Soluble	Solid	DI Leach	
880-57184-9	S-2 (1')	Soluble	Solid	DI Leach	
880-57184-10	S-2 (1.5')	Soluble	Solid	DI Leach	
880-57184-11	S-2 (2')	Soluble	Solid	DI Leach	
880-57184-12	S-2 (3')	Soluble	Solid	DI Leach	
880-57184-13	S-3 (0-3")	Soluble	Solid	DI Leach	
880-57184-14	S-3 (6")	Soluble	Solid	DI Leach	
880-57184-15	S-3 (1')	Soluble	Solid	DI Leach	
MB 880-108410/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108410/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 108410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-108410/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57184-6 MS	S-1 (3')	Soluble	Solid	DI Leach	
880-57184-6 MSD	S-1 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 108427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-1	S-1 (0-3")	Soluble	Solid	300.0	108410
880-57184-2	S-1 (6")	Soluble	Solid	300.0	108410
880-57184-3	S-1 (1')	Soluble	Solid	300.0	108410
880-57184-4	S-1 (1.5')	Soluble	Solid	300.0	108410
880-57184-5	S-1 (2')	Soluble	Solid	300.0	108410
880-57184-6	S-1 (3')	Soluble	Solid	300.0	108410
880-57184-7	S-2 (0-3")	Soluble	Solid	300.0	108410
880-57184-8	S-2 (6")	Soluble	Solid	300.0	108410
880-57184-9	S-2 (1')	Soluble	Solid	300.0	108410
880-57184-10	S-2 (1.5')	Soluble	Solid	300.0	108410
880-57184-11	S-2 (2')	Soluble	Solid	300.0	108410
880-57184-12	S-2 (3')	Soluble	Solid	300.0	108410
880-57184-13	S-3 (0-3")	Soluble	Solid	300.0	108410
880-57184-14	S-3 (6")	Soluble	Solid	300.0	108410
880-57184-15	S-3 (1')	Soluble	Solid	300.0	108410
MB 880-108410/1-A	Method Blank	Soluble	Solid	300.0	108410
LCS 880-108410/2-A	Lab Control Sample	Soluble	Solid	300.0	108410
LCSD 880-108410/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108410
880-57184-6 MS	S-1 (3')	Soluble	Solid	300.0	108410
880-57184-6 MSD	S-1 (3')	Soluble	Solid	300.0	108410

Leach Batch: 108434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-16	S-3 (1.5')	Soluble	Solid	DI Leach	
880-57184-17	S-3 (2')	Soluble	Solid	DI Leach	
880-57184-18	S-3 (3')	Soluble	Solid	DI Leach	
MB 880-108434/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108434/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108434/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57211-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-57211-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 108445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57184-16	S-3 (1.5')	Soluble	Solid	300.0	108434
880-57184-17	S-3 (2')	Soluble	Solid	300.0	108434
880-57184-18	S-3 (3')	Soluble	Solid	300.0	108434
MB 880-108434/1-A	Method Blank	Soluble	Solid	300.0	108434
LCS 880-108434/2-A	Lab Control Sample	Soluble	Solid	300.0	108434
LCSD 880-108434/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108434
880-57211-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	108434
880-57211-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	108434

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57184-1

Date Collected: 04/16/25 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	108388	04/23/25 11:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108374	04/23/25 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 17:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 14:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 14:07	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 17:07	CH	EET MID

Client Sample ID: S-1 (6")

Lab Sample ID: 880-57184-2

Date Collected: 04/16/25 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			4.95 g	5 mL	108388	04/23/25 11:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108374	04/23/25 17:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 17:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 14:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 17:14	CH	EET MID

Client Sample ID: S-1 (1')

Lab Sample ID: 880-57184-3

Date Collected: 04/16/25 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	108388	04/23/25 11:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108374	04/23/25 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 18:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 14:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 17:21	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-57184-4

Date Collected: 04/16/25 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	108388	04/23/25 11:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108374	04/23/25 18:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 18:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-57184-4

Date Collected: 04/16/25 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	Analysis	8015 NM		1			108618	04/24/25 15:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 15:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 17:28	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-57184-5

Date Collected: 04/16/25 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			5.03 g	5 mL	108388	04/23/25 11:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108374	04/23/25 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 19:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 15:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 15:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 17:35	CH	EET MID

Client Sample ID: S-1 (3')

Lab Sample ID: 880-57184-6

Date Collected: 04/16/25 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	108388	04/23/25 11:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108374	04/23/25 19:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 19:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 15:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 15:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 17:43	CH	EET MID

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

Lab Sample ID: 880-57184-7

Date Collected: 04/16/25 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			5.03 g	5 mL	108386	04/23/25 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108291	04/23/25 17:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 17:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 16:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 16:09	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57184-7

Date Collected: 04/16/25 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
Soluble	Leach	DI Leach			5.04 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 18:04	CH	EET MID

Client Sample ID: S-2 (6")

Lab Sample ID: 880-57184-8

Date Collected: 04/16/25 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	108386	04/23/25 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108291	04/23/25 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 16:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 16:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 18:11	CH	EET MID

Client Sample ID: S-2 (1')

Lab Sample ID: 880-57184-9

Date Collected: 04/16/25 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			4.95 g	5 mL	108386	04/23/25 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108291	04/23/25 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 17:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 17:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 17:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 18:33	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-57184-10

Date Collected: 04/16/25 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	108386	04/23/25 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108291	04/23/25 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 17:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 17:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 18:40	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')

Date Collected: 04/16/25 00:00

Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-11

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	108386	04/23/25 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108291	04/23/25 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 18:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 18:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 18:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 18:47	CH	EET MID

Client Sample ID: S-2 (3')

Date Collected: 04/16/25 00:00

Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-12

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	108386	04/23/25 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108291	04/23/25 18:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 18:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 18:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 18:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 18:54	CH	EET MID

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

Date Collected: 04/16/25 00:00

Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-13

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	108386	04/23/25 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108291	04/23/25 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 19:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 19:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 19:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 19:01	CH	EET MID

Client Sample ID: S-3 (6")

Date Collected: 04/16/25 00:00

Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108442	04/23/25 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 22:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 22:25	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (6")

Date Collected: 04/16/25 00:00

Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-14

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			108618	04/24/25 19:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 19:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 19:09	CH	EET MID

Client Sample ID: S-3 (1')

Date Collected: 04/16/25 00:00

Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-15

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			4.99 g	5 mL	108442	04/23/25 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 22:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 22:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 19:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 19:51	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 19:16	CH	EET MID

Client Sample ID: S-3 (1.5')

Date Collected: 04/16/25 00:00

Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-16

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			5.02 g	5 mL	108442	04/23/25 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 23:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 23:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 20:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 20:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	108434	04/23/25 11:58	SA	EET MID
Soluble	Analysis	300.0		1			108445	04/23/25 22:27	CH	EET MID

Client Sample ID: S-3 (2')

Date Collected: 04/16/25 00:00

Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-17

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			5.03 g	5 mL	108442	04/23/25 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 23:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 23:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 20:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 20:32	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2')
Date Collected: 04/16/25 00:00
Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-17
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			4.98 g	50 mL	108434	04/23/25 11:58	SA	EET MID
Soluble	Analysis	300.0		1			108445	04/23/25 22:49	CH	EET MID

Client Sample ID: S-3 (3')
Date Collected: 04/16/25 00:00
Date Received: 04/22/25 16:25

Lab Sample ID: 880-57184-18
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			5.01 g	5 mL	108442	04/23/25 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 23:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108550	04/23/25 23:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			108618	04/24/25 20:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 20:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108434	04/23/25 11:58	SA	EET MID
Soluble	Analysis	300.0		1			108445	04/23/25 22:56	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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea 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

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Method Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea 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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57184-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57184-1	S-1 (0-3")	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-2	S-1 (6")	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-3	S-1 (1')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-4	S-1 (1.5')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-5	S-1 (2')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-6	S-1 (3')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-7	S-2 (0-3")	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-8	S-2 (6")	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-9	S-2 (1')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-10	S-2 (1.5')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-11	S-2 (2')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-12	S-2 (3')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-13	S-3 (0-3")	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-14	S-3 (6")	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-15	S-3 (1')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-16	S-3 (1.5')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-17	S-3 (2')	Solid	04/16/25 00:00	04/22/25 16:25
880-57184-18	S-3 (3')	Solid	04/16/25 00:00	04/22/25 16:25

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Chain of Custody



880-57184 Chain of Custody

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

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

Project Name:		Black Pearl 1 Federal 1H		Turn Around		ANALYSIS REQUEST												Preservative Codes	
Project Number:		2698		☐ Routine ☒ Rush		Pres. Code											None: NO	DI Water: H ₂ O	
Project Location:		Lea County, New Mexico		Due Date:		72 HR TAT										Cool: Cool		MeOH: Me	
Sample's Name:		JM														HCL: HC		HNO ₃ : HN	
PO #:																H ₂ SO ₄ : H ₂		NaOH: Na	
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Well Ice:		Yes ☒ No ☐								H ₃ PO ₄ : HP			
Received Intact:		Yes ☒ No ☐		Thermometer ID:												NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes ☒ No ☐		Correction Factor:												Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes ☒ No ☐		Temperature Reading:												Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:												NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont				Sample Comments			
S-1 (0-3")		4/16/2025				X				G		1		X		X			
S-1 (6")		4/16/2025				X				G		1		X		X			
S-1 (1')		4/16/2025				X				G		1		X		X			
S-1 (1.5')		4/16/2025				X				G		1		X		X			
S-1 (2')		4/16/2025				X				G		1		X		X			
S-1 (3')		4/16/2025				X				G		1		X		X			
S-2 (0-3")		4/16/2025				X				G		1		X		X			
S-2 (6")		4/16/2025				X				G		1		X		X			
S-2 (1')		4/16/2025				X				G		1		X		X			
S-2 (1.5')		4/16/2025				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
<i>Mike Carmona</i>	4/22/25 01:16:25	<i>[Signature]</i>	4/22/25 1:45

Chain of Custody

Work Order No: _____

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Work Order Comments Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADaPT ☐ Other: _____			
Project Manager:	Conner Moehring	Bill to: (if different)	Camrona Resources
Company Name:	Camrona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcamrona@camronaresources.com

ANALYSIS REQUEST										Preservative Codes					
Project Name:		Black Pearl 1 Federal 1H		Turn Around		Pres. Code				None: NO		DI Water: H ₂ O			
Project Number:		2698		☐ Routine ☒ Rush								Cool: Cool		MeOH: Me	
Project Location:		Lea County, New Mexico		Due Date:		72 HR TAT						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		Well Ice:		Yes No				NaHSO ₄ : NABIS			
Received Intact:		Yes No		Thermometer ID:								Na ₂ S ₂ O ₃ : NaSO ₃			
Cooler Custody Seals:		Yes No N/A		Correction Factor:								Zn Acetate+NaOH: Zn			
Sample Custody Seals:		Yes No N/A		Temperature Reading:								NaOH+Ascorbic Acid: SAPC			
Total Containers:				Corrected Temperature:											
Sample Identification		Date		Time		Soil		Water		Grab/ Comp		# of Cont		Sample Comments	
S-2 (2')		4/16/2025				X				G		1		X X X	
S-2 (3')		4/16/2025				X				G		1		X X X	
S-3 (0-3')		4/16/2025				X				G		1		X X X	
S-3 (6")		4/16/2025				X				G		1		X X X	
S-3 (1')		4/16/2025				X				G		1		X X X	
S-3 (1.5')		4/16/2025				X				G		1		X X X	
S-3 (2')		4/16/2025				X				G		1		X X X	
S-3 (3')		4/16/2025				X				G		1		X X X	

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

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



880-57184 Chain of Custody

Chain of Custody

Page 1 of 2

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

Project Name:	Black Pearl 1 Federal 1H	Turn Around	Pres. Code
Project Number:	2698	☐ Routine ☒ Rush	
Project Location	Lea County, New Mexico	Due Date:	72 HR TAT
Sampler's Name:	JM		

PO #:		Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:		Thermometer ID:			
Cooler Custody Seals:		Correction Factor:			
Sample Custody Seals:		Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
S-1 (0-3")	4/16/2025		X		G	1				None: NO DI Water: H ₂ O
S-1 (6")	4/16/2025		X		G	1				Cool: Cool MeOH: Me
S-1 (1')	4/16/2025		X		G	1				HCL: HC HNO ₃ : HN
S-1 (1.5')	4/16/2025		X		G	1				H ₂ SO ₄ : H ₂ NaOH: Na
S-1 (2')	4/16/2025		X		G	1				H ₃ PO ₄ : HP
S-1 (3')	4/16/2025		X		G	1				NaHSO ₄ : NABIS
S-2 (0-3")	4/16/2025		X		G	1				Na ₂ S ₂ O ₃ : NaSO ₃
S-2 (6")	4/16/2025		X		G	1				Zn Acetate+NaOH: Zn
S-2 (1')	4/16/2025		X		G	1				NaOH+Ascorbic Acid: SACP
S-2 (1.5')	4/16/2025		X		G	1				

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>	4/23/2025 16:25	<i>[Signature]</i>	4/23/25 16:25

Chain of Custody

Work Order No:

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Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other: _____

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

[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>[Signature]</i>	4/22/25 6:16:25	<i>[Signature]</i>	4/22/25 10:25

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-57184-1
SDG Number: Lea County, New Mexico

Login Number: 57184
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



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 4/24/2025 10:08:48 PM

JOB DESCRIPTION

2698 Black Pearl 1 Federal 1H
Lea County, New Mexico

JOB NUMBER

880-57183-1

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
4/24/2025 10:08:48 PM

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

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Laboratory Job ID: 880-57183-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea 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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier 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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1

Job ID: 880-57183-1**Eurofins Midland**

Job Narrative
880-57183-1

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 -1.4°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: The surrogate recovery for the blank associated with preparation batch 880-108381 and analytical batch 880-108423 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-108381/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-108423 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-108423/32).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: H-5 (0-3") (880-57183-5), (CCV 880-108548/19), (CCV 880-108548/4), (LCS 880-108408/2-A), (LCSD 880-108408/3-A), (880-57183-A-4-D MS) and (880-57183-A-4-E MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108408 and analytical batch 880-108548 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 laboratory control sample duplicate (LCSD) for preparation batch 880-108408 and analytical batch 880-108548 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). Since only an acceptable LCS is required per the method, the data has been qualified and reported.

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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57183-1

Date Collected: 04/16/25 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 11:45	04/23/25 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:45	04/23/25 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:45	04/23/25 18:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 11:45	04/23/25 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:45	04/23/25 18:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 11:45	04/23/25 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/23/25 11:45	04/23/25 18:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/23/25 11:45	04/23/25 18:18	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			04/23/25 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.9		49.9		mg/Kg			04/23/25 16:32	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 08:35	04/23/25 16:32	1
Diesel Range Organics (Over C10-C28)	53.9		49.9		mg/Kg		04/23/25 08:35	04/23/25 16:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 08:35	04/23/25 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	04/23/25 08:35	04/23/25 16:32	1
o-Terphenyl (Surr)	102		70 - 130	04/23/25 08:35	04/23/25 16:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.5		10.0		mg/Kg			04/23/25 16:02	1

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

Lab Sample ID: 880-57183-2

Date Collected: 04/16/25 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 11:45	04/23/25 18:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:45	04/23/25 18:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:45	04/23/25 18:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 11:45	04/23/25 18:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:45	04/23/25 18:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 11:45	04/23/25 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/23/25 11:45	04/23/25 18:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/23/25 11:45	04/23/25 18:38	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57183-2

Date Collected: 04/16/25 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	<0.00398	U	0.00398		mg/Kg			04/23/25 18:38	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			04/23/25 16:47	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	<50.0	U	50.0		mg/Kg		04/23/25 08:35	04/23/25 16:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 08:35	04/23/25 16:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 08:35	04/23/25 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130				04/23/25 08:35	04/23/25 16:47	1
o-Terphenyl (Surr)	104		70 - 130				04/23/25 08:35	04/23/25 16:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.3		10.0		mg/Kg			04/23/25 16:24	1

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

Lab Sample ID: 880-57183-3

Date Collected: 04/16/25 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 11:45	04/23/25 18:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:45	04/23/25 18:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:45	04/23/25 18:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/23/25 11:45	04/23/25 18:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 11:45	04/23/25 18:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 11:45	04/23/25 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/23/25 11:45	04/23/25 18:59	1
1,4-Difluorobenzene (Surr)	100		70 - 130				04/23/25 11:45	04/23/25 18:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/23/25 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/23/25 17:02	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 08:35	04/23/25 17:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/23/25 08:35	04/23/25 17:02	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57183-3

Date Collected: 04/16/25 00:00

Matrix: Solid

Date Received: 04/22/25 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)	<49.8	U	49.8		mg/Kg		04/23/25 08:35	04/23/25 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130				04/23/25 08:35	04/23/25 17:02	1
o-Terphenyl (Surr)	117		70 - 130				04/23/25 08:35	04/23/25 17:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.8		10.1		mg/Kg			04/23/25 16:31	1

Client Sample ID: H-4 (0-3")

Lab Sample ID: 880-57183-4

Date Collected: 04/16/25 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 11:45	04/23/25 19:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:45	04/23/25 19:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:45	04/23/25 19:19	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 11:45	04/23/25 19:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 11:45	04/23/25 19:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 11:45	04/23/25 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/23/25 11:45	04/23/25 19:19	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/23/25 11:45	04/23/25 19:19	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			04/23/25 19:19	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			04/24/25 12:45	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 *+ *1	50.1		mg/Kg		04/23/25 09:42	04/24/25 12:45	1
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1 F1	50.1		mg/Kg		04/23/25 09:42	04/24/25 12:45	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/23/25 09:42	04/24/25 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130				04/23/25 09:42	04/24/25 12:45	1
o-Terphenyl (Surr)	80		70 - 130				04/23/25 09:42	04/24/25 12:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.0		10.0		mg/Kg			04/23/25 16:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

Client Sample ID: H-5 (0-3")

Lab Sample ID: 880-57183-5

Date Collected: 04/16/25 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	<0.00201	U	0.00201		mg/Kg		04/23/25 13:03	04/24/25 00:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/23/25 13:03	04/24/25 00:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/23/25 13:03	04/24/25 00:08	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		04/23/25 13:03	04/24/25 00:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/23/25 13:03	04/24/25 00:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/23/25 13:03	04/24/25 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/23/25 13:03	04/24/25 00:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/23/25 13:03	04/24/25 00:08	1

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			04/24/25 00:08	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			04/24/25 13:46	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 *+ *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 13:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	50.0		mg/Kg		04/23/25 09:42	04/24/25 13:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130	04/23/25 09:42	04/24/25 13:46	1
o-Terphenyl (Surr)	67	S1-	70 - 130	04/23/25 09:42	04/24/25 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.3		10.0		mg/Kg			04/23/25 16:45	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea 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)
880-57183-1	H-1 (0-3")	107	102
880-57183-2	H-2 (0-3")	101	100
880-57183-3	H-3 (0-3")	105	100
880-57183-4	H-4 (0-3")	105	105
880-57183-5	H-5 (0-3")	103	98
880-57184-A-14-C MS	Matrix Spike	98	100
880-57184-A-14-D MSD	Matrix Spike Duplicate	101	100
890-8022-A-1-E MS	Matrix Spike	98	101
890-8022-A-1-F MSD	Matrix Spike Duplicate	106	101
LCS 880-108382/1-A	Lab Control Sample	98	100
LCS 880-108442/1-A	Lab Control Sample	98	100
LCSD 880-108382/2-A	Lab Control Sample Dup	98	101
LCSD 880-108442/2-A	Lab Control Sample Dup	100	101
MB 880-108382/5-A	Method Blank	101	93
MB 880-108442/5-A	Method Blank	98	96
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)
880-57183-1	H-1 (0-3")	89	102
880-57183-2	H-2 (0-3")	87	104
880-57183-3	H-3 (0-3")	103	117
880-57183-4	H-4 (0-3")	82	80
880-57183-4 MS	H-4 (0-3")	70	64 S1-
880-57183-4 MSD	H-4 (0-3")	69 S1-	64 S1-
880-57183-5	H-5 (0-3")	67 S1-	67 S1-
890-8019-A-1-C MS	Matrix Spike	112	108
890-8019-A-1-D MSD	Matrix Spike Duplicate	111	107
LCS 880-108381/2-A	Lab Control Sample	131 S1+	123
LCS 880-108408/2-A	Lab Control Sample	19 S1-	14 S1-
LCSD 880-108381/3-A	Lab Control Sample Dup	112	108
LCSD 880-108408/3-A	Lab Control Sample Dup	29 S1-	22 S1-
MB 880-108381/1-A	Method Blank	134 S1+	134 S1+
MB 880-108408/1-A	Method Blank	106	107
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108382/5-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:37	04/23/25 11:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 08:37	04/23/25 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/23/25 08:37	04/23/25 11:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/23/25 08:37	04/23/25 11:03	1

Lab Sample ID: LCS 880-108382/1-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1000		mg/Kg		100	70 - 130
Toluene	0.100	0.09013		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09584		mg/Kg		96	70 - 130
m,p-Xylenes	0.200	0.1921		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09868		mg/Kg		99	70 - 130

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

Lab Sample ID: LCSD 880-108382/2-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108382

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1015		mg/Kg		101	70 - 130	1	35
Toluene	0.100	0.09139		mg/Kg		91	70 - 130	1	35
Ethylbenzene	0.100	0.09510		mg/Kg		95	70 - 130	1	35
m,p-Xylenes	0.200	0.1931		mg/Kg		97	70 - 130	1	35
o-Xylene	0.100	0.09813		mg/Kg		98	70 - 130	1	35

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

Lab Sample ID: 890-8022-A-1-E MS

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09027		mg/Kg		90	70 - 130
Toluene	<0.00200	U	0.100	0.08317		mg/Kg		83	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-8022-A-1-E MS

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08445		mg/Kg		84	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1718		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.100	0.08795		mg/Kg		88	70 - 130

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

Lab Sample ID: 890-8022-A-1-F MSD

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108382

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	0.09341		mg/Kg		93	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08607		mg/Kg		86	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.08865		mg/Kg		89	70 - 130	5	35
m,p-Xylenes	<0.00399	U	0.200	0.1844		mg/Kg		92	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.09350		mg/Kg		93	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-108442/5-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:03	04/23/25 22:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 13:03	04/23/25 22:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/23/25 13:03	04/23/25 22:03	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/23/25 13:03	04/23/25 22:03	1

Lab Sample ID: LCS 880-108442/1-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09767		mg/Kg		98	70 - 130
Toluene	0.100	0.08784		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09030		mg/Kg		90	70 - 130
m,p-Xylenes	0.200	0.1825		mg/Kg		91	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-108442/1-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09411		mg/Kg		94	70 - 130

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

Lab Sample ID: LCSD 880-108442/2-A

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108442

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09970		mg/Kg		100	70 - 130	2	35
Toluene	0.100	0.08987		mg/Kg		90	70 - 130	2	35
Ethylbenzene	0.100	0.09324		mg/Kg		93	70 - 130	3	35
m,p-Xylenes	0.200	0.1912		mg/Kg		96	70 - 130	5	35
o-Xylene	0.100	0.09858		mg/Kg		99	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-57184-A-14-C MS

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09586		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.100	0.08448		mg/Kg		84	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08508		mg/Kg		85	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1706		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.100	0.08744		mg/Kg		87	70 - 130

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

Lab Sample ID: 880-57184-A-14-D MSD

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09859		mg/Kg		99	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08677		mg/Kg		87	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.08916		mg/Kg		89	70 - 130	5	35
m,p-Xylenes	<0.00399	U	0.200	0.1798		mg/Kg		90	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.09185		mg/Kg		92	70 - 130	5	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57184-A-14-D MSD

Matrix: Solid

Analysis Batch: 108372

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108442

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-108381/1-A

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108381

Analyte	MB	MB								
	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 08:34	04/23/25 08:51	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 08:34	04/23/25 08:51	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 08:34	04/23/25 08:51	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane (Surr)	134	S1+	70 - 130				04/23/25 08:34	04/23/25 08:51	1	
o-Terphenyl (Surr)	134	S1+	70 - 130				04/23/25 08:34	04/23/25 08:51	1	

Lab Sample ID: LCS 880-108381/2-A

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108381

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1217		mg/Kg		122		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1138		mg/Kg		114		70 - 130		
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	131	S1+	70 - 130							
o-Terphenyl (Surr)	123		70 - 130							

Lab Sample ID: LCSD 880-108381/3-A

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108381

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		110		70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	975.2		mg/Kg		98		70 - 130	15	20
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	112		70 - 130							
o-Terphenyl (Surr)	108		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-8019-A-1-C MS

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108381

	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1057		mg/Kg		106	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	995	988.4		mg/Kg		98	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane (Surr)	112		70 - 130							
o-Terphenyl (Surr)	108		70 - 130							

Lab Sample ID: 890-8019-A-1-D MSD

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108381

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1042		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	995	946.0		mg/Kg		93	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	111		70 - 130								
o-Terphenyl (Surr)	107		70 - 130								

Lab Sample ID: MB 880-108408/1-A

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108408

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 09:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 09:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 09:42	04/24/25 09:07	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	106		70 - 130				04/23/25 09:42	04/24/25 09:07	1
o-Terphenyl (Surr)	107		70 - 130				04/23/25 09:42	04/24/25 09:07	1

Lab Sample ID: LCS 880-108408/2-A

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108408

Analyte	Spike	LCS	Unit	D	%Rec	%Rec
	Added	Result				Qualifier
Gasoline Range Organics (GRO)-C6-C10	1000	1061	mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1114	mg/Kg		111	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-108408/2-A

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108408

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	19	S1-	70 - 130
o-Terphenyl (Surr)	14	S1-	70 - 130

Lab Sample ID: LCSD 880-108408/3-A

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108408

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1438	*+ *1	mg/Kg		144	70 - 130	30	20
Diesel Range Organics (Over C10-C28)	1000	1662	*+ *1	mg/Kg		166	70 - 130	39	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	29	S1-	70 - 130
o-Terphenyl (Surr)	22	S1-	70 - 130

Lab Sample ID: 880-57183-4 MS

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: H-4 (0-3")

Prep Type: Total/NA

Prep Batch: 108408

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *+ *1	1010	916.3		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1 F1	1010	572.5	F1	mg/Kg		52	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	70		70 - 130
o-Terphenyl (Surr)	64	S1-	70 - 130

Lab Sample ID: 880-57183-4 MSD

Matrix: Solid

Analysis Batch: 108548

Client Sample ID: H-4 (0-3")

Prep Type: Total/NA

Prep Batch: 108408

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 *+ *1	1010	921.1		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U *+ *1 F1	1010	576.4	F1	mg/Kg		53	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	69	S1-	70 - 130
o-Terphenyl (Surr)	64	S1-	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108410/1-A

Matrix: Solid

Analysis Batch: 108427

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			04/23/25 15:41	1

Lab Sample ID: LCS 880-108410/2-A

Matrix: Solid

Analysis Batch: 108427

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-108410/3-A

Matrix: Solid

Analysis Batch: 108427

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	242.2		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-57183-1 MS

Matrix: Solid

Analysis Batch: 108427

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	94.5		251	320.9		mg/Kg		90	90 - 110

Lab Sample ID: 880-57183-1 MSD

Matrix: Solid

Analysis Batch: 108427

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	94.5		251	319.2		mg/Kg		90	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 108372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-1	H-1 (0-3")	Total/NA	Solid	8021B	108382
880-57183-2	H-2 (0-3")	Total/NA	Solid	8021B	108382
880-57183-3	H-3 (0-3")	Total/NA	Solid	8021B	108382
880-57183-4	H-4 (0-3")	Total/NA	Solid	8021B	108382
880-57183-5	H-5 (0-3")	Total/NA	Solid	8021B	108442
MB 880-108382/5-A	Method Blank	Total/NA	Solid	8021B	108382
MB 880-108442/5-A	Method Blank	Total/NA	Solid	8021B	108442
LCS 880-108382/1-A	Lab Control Sample	Total/NA	Solid	8021B	108382
LCS 880-108442/1-A	Lab Control Sample	Total/NA	Solid	8021B	108442
LCSD 880-108382/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108382
LCSD 880-108442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108442
880-57184-A-14-C MS	Matrix Spike	Total/NA	Solid	8021B	108442
880-57184-A-14-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	108442
890-8022-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	108382
890-8022-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	108382

Prep Batch: 108382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-1	H-1 (0-3")	Total/NA	Solid	5035	
880-57183-2	H-2 (0-3")	Total/NA	Solid	5035	
880-57183-3	H-3 (0-3")	Total/NA	Solid	5035	
880-57183-4	H-4 (0-3")	Total/NA	Solid	5035	
MB 880-108382/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108382/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108382/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8022-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-8022-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 108442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-5	H-5 (0-3")	Total/NA	Solid	5035	
MB 880-108442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57184-A-14-C MS	Matrix Spike	Total/NA	Solid	5035	
880-57184-A-14-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 108551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-1	H-1 (0-3")	Total/NA	Solid	Total BTEX	
880-57183-2	H-2 (0-3")	Total/NA	Solid	Total BTEX	
880-57183-3	H-3 (0-3")	Total/NA	Solid	Total BTEX	
880-57183-4	H-4 (0-3")	Total/NA	Solid	Total BTEX	
880-57183-5	H-5 (0-3")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-1	H-1 (0-3")	Total/NA	Solid	8015NM Prep	
880-57183-2	H-2 (0-3")	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 108381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-3	H-3 (0-3")	Total/NA	Solid	8015NM Prep	
MB 880-108381/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108381/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108381/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8019-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8019-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 108408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-4	H-4 (0-3")	Total/NA	Solid	8015NM Prep	
880-57183-5	H-5 (0-3")	Total/NA	Solid	8015NM Prep	
MB 880-108408/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108408/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108408/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57183-4 MS	H-4 (0-3")	Total/NA	Solid	8015NM Prep	
880-57183-4 MSD	H-4 (0-3")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 108423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-1	H-1 (0-3")	Total/NA	Solid	8015B NM	108381
880-57183-2	H-2 (0-3")	Total/NA	Solid	8015B NM	108381
880-57183-3	H-3 (0-3")	Total/NA	Solid	8015B NM	108381
MB 880-108381/1-A	Method Blank	Total/NA	Solid	8015B NM	108381
LCS 880-108381/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108381
LCSD 880-108381/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108381
890-8019-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	108381
890-8019-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	108381

Analysis Batch: 108492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-1	H-1 (0-3")	Total/NA	Solid	8015 NM	
880-57183-2	H-2 (0-3")	Total/NA	Solid	8015 NM	
880-57183-3	H-3 (0-3")	Total/NA	Solid	8015 NM	
880-57183-4	H-4 (0-3")	Total/NA	Solid	8015 NM	
880-57183-5	H-5 (0-3")	Total/NA	Solid	8015 NM	

Analysis Batch: 108548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-4	H-4 (0-3")	Total/NA	Solid	8015B NM	108408
880-57183-5	H-5 (0-3")	Total/NA	Solid	8015B NM	108408
MB 880-108408/1-A	Method Blank	Total/NA	Solid	8015B NM	108408
LCS 880-108408/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108408
LCSD 880-108408/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108408
880-57183-4 MS	H-4 (0-3")	Total/NA	Solid	8015B NM	108408
880-57183-4 MSD	H-4 (0-3")	Total/NA	Solid	8015B NM	108408

HPLC/IC

Leach Batch: 108410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-1	H-1 (0-3")	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 108410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-2	H-2 (0-3")	Soluble	Solid	DI Leach	
880-57183-3	H-3 (0-3")	Soluble	Solid	DI Leach	
880-57183-4	H-4 (0-3")	Soluble	Solid	DI Leach	
880-57183-5	H-5 (0-3")	Soluble	Solid	DI Leach	
MB 880-108410/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108410/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108410/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57183-1 MS	H-1 (0-3")	Soluble	Solid	DI Leach	
880-57183-1 MSD	H-1 (0-3")	Soluble	Solid	DI Leach	

Analysis Batch: 108427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57183-1	H-1 (0-3")	Soluble	Solid	300.0	108410
880-57183-2	H-2 (0-3")	Soluble	Solid	300.0	108410
880-57183-3	H-3 (0-3")	Soluble	Solid	300.0	108410
880-57183-4	H-4 (0-3")	Soluble	Solid	300.0	108410
880-57183-5	H-5 (0-3")	Soluble	Solid	300.0	108410
MB 880-108410/1-A	Method Blank	Soluble	Solid	300.0	108410
LCS 880-108410/2-A	Lab Control Sample	Soluble	Solid	300.0	108410
LCSD 880-108410/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108410
880-57183-1 MS	H-1 (0-3")	Soluble	Solid	300.0	108410
880-57183-1 MSD	H-1 (0-3")	Soluble	Solid	300.0	108410

Lab Chronicle

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-57183-1

Date Collected: 04/16/25 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	108382	04/23/25 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 18:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108551	04/23/25 18:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			108492	04/23/25 16:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108381	04/23/25 08:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108423	04/23/25 16:32	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 16:02	CH	EET MID

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

Lab Sample ID: 880-57183-2

Date Collected: 04/16/25 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	108382	04/23/25 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108551	04/23/25 18:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			108492	04/23/25 16:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108381	04/23/25 08:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108423	04/23/25 16:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 16:24	CH	EET MID

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

Lab Sample ID: 880-57183-3

Date Collected: 04/16/25 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			5.03 g	5 mL	108382	04/23/25 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108551	04/23/25 18:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			108492	04/23/25 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108381	04/23/25 08:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108423	04/23/25 17:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 16:31	CH	EET MID

Client Sample ID: H-4 (0-3")

Lab Sample ID: 880-57183-4

Date Collected: 04/16/25 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	108382	04/23/25 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/23/25 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108551	04/23/25 19:19	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-3")
Date Collected: 04/16/25 00:00
Date Received: 04/22/25 16:25

Lab Sample ID: 880-57183-4
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			108492	04/24/25 12:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 12:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 16:38	CH	EET MID

Client Sample ID: H-5 (0-3")
Date Collected: 04/16/25 00:00
Date Received: 04/22/25 16:25

Lab Sample ID: 880-57183-5
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			4.97 g	5 mL	108442	04/23/25 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108372	04/24/25 00:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108551	04/24/25 00:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			108492	04/24/25 13:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108408	04/23/25 09:42	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108548	04/24/25 13:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	108410	04/23/25 10:01	SA	EET MID
Soluble	Analysis	300.0		1			108427	04/23/25 16:45	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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea 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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea 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: 2698 Black Pearl 1 Federal 1H

Job ID: 880-57183-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57183-1	H-1 (0-3")	Solid	04/16/25 00:00	04/22/25 16:25
880-57183-2	H-2 (0-3")	Solid	04/16/25 00:00	04/22/25 16:25
880-57183-3	H-3 (0-3")	Solid	04/16/25 00:00	04/22/25 16:25
880-57183-4	H-4 (0-3")	Solid	04/16/25 00:00	04/22/25 16:25
880-57183-5	H-5 (0-3")	Solid	04/16/25 00:00	04/22/25 16:25

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Chain of Custody



880-57183 Chain of Custody

Page 1 of 1

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

Work Order Comments Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:
--

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	4/22/25 @ 1:25		4/22/25 11:25

Chain of Custody



990-57183 Chain of Custody

Page 1 of 1

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

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

[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>[Signature]</i>	4/22/25 16:25	<i>[Signature]</i>	4/22/25 16:25

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-57183-1

SDG Number: Lea County, New Mexico

Login Number: 57183

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

Generated 5/21/2025 12:04:16 PM

JOB DESCRIPTION

Black Pearl 1 Federal 1H
2698

JOB NUMBER

880-58331-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

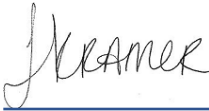
Eurofins Midland

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
5/21/2025 12:04:16 PM

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

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

Laboratory Job ID: 880-58331-1
SDG: 2698

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Definitions/Glossary

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

Job ID: 880-58331-1
SDG: 2698

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
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

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

Job ID: 880-58331-1

Job ID: 880-58331-1

Eurofins Midland

Job Narrative 880-58331-1

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

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

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

Receipt

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

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (1.5') (880-58331-1), CS-2 (1.5') (880-58331-2), SW-1 (1.5') (880-58331-3), SW-2 (1.5') (880-58331-4), SW-3 (1.5') (880-58331-5), SW-4 (1.5') (880-58331-6), (CCV 880-110491/2), (CCV 880-110491/20), (CCV 880-110491/33), (LCS 880-110495/1-A), (LCSD 880-110495/2-A), (890-8180-A-14-G), (890-8180-A-14-E MS) and (890-8180-A-14-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

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

HPLC/IC

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

The associated samples are: CS-1 (1.5') (880-58331-1), CS-2 (1.5') (880-58331-2), SW-1 (1.5') (880-58331-3), SW-2 (1.5') (880-58331-4), SW-3 (1.5') (880-58331-5), SW-4 (1.5') (880-58331-6), (880-58313-A-1-E), (880-58313-A-1-F MS) and (880-58313-A-1-G MSD).

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

Eurofins Midland

Client Sample Results

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

Job ID: 880-58331-1
SDG: 2698

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-58331-1

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 17:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 17:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/20/25 11:11	05/20/25 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 17:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 11:11	05/20/25 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	05/20/25 11:11	05/20/25 17:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/20/25 11:11	05/20/25 17:08	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			05/20/25 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/20/25 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 08:15	05/20/25 20:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 08:15	05/20/25 20:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 08:15	05/20/25 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	05/20/25 08:15	05/20/25 20:02	1
o-Terphenyl (Surr)	112		70 - 130	05/20/25 08:15	05/20/25 20:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.3		10.0		mg/Kg			05/20/25 23:12	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-58331-2

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 17:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 17:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 17:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/20/25 11:11	05/20/25 17:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 17:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 11:11	05/20/25 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	05/20/25 11:11	05/20/25 17:29	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/20/25 11:11	05/20/25 17:29	1

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Client Sample Results

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

Job ID: 880-58331-1
SDG: 2698

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-58331-2

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/20/25 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/20/25 20:19	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	<49.9	U	49.9		mg/Kg		05/20/25 08:15	05/20/25 20:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 08:15	05/20/25 20:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 08:15	05/20/25 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130				05/20/25 08:15	05/20/25 20:19	1
o-Terphenyl (Surr)	113		70 - 130				05/20/25 08:15	05/20/25 20:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		9.90		mg/Kg			05/20/25 23:20	1

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-58331-3

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 17:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 17:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 17:49	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/20/25 11:11	05/20/25 17:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 17:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 11:11	05/20/25 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				05/20/25 11:11	05/20/25 17:49	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/20/25 11:11	05/20/25 17:49	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			05/20/25 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/20/25 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 20:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 20:33	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-58331-1
SDG: 2698

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-58331-3

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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)	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130				05/20/25 08:15	05/20/25 20:33	1
o-Terphenyl (Surr)	108		70 - 130				05/20/25 08:15	05/20/25 20:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.5		9.92		mg/Kg			05/20/25 23:27	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-58331-4

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 18:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 18:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 18:10	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		05/20/25 11:11	05/20/25 18:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 11:11	05/20/25 18:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/20/25 11:11	05/20/25 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				05/20/25 11:11	05/20/25 18:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130				05/20/25 11:11	05/20/25 18:10	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			05/20/25 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/20/25 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 08:15	05/20/25 20:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 08:15	05/20/25 20:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 08:15	05/20/25 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130				05/20/25 08:15	05/20/25 20:48	1
o-Terphenyl (Surr)	110		70 - 130				05/20/25 08:15	05/20/25 20:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.9		10.0		mg/Kg			05/20/25 23:48	1

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Client Sample Results

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

Job ID: 880-58331-1
SDG: 2698

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-58331-5

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 18:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 18:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 18:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/20/25 11:11	05/20/25 18:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 18:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 11:11	05/20/25 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	05/20/25 11:11	05/20/25 18:30	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/20/25 11:11	05/20/25 18:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/20/25 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/20/25 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 21:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 21:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:15	05/20/25 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	05/20/25 08:15	05/20/25 21:18	1
o-Terphenyl (Surr)	110		70 - 130	05/20/25 08:15	05/20/25 21:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.2		10.1		mg/Kg			05/20/25 23:55	1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-58331-6

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 18:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 18:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 18:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/20/25 11:11	05/20/25 18:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 11:11	05/20/25 18:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 11:11	05/20/25 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	05/20/25 11:11	05/20/25 18:51	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/20/25 11:11	05/20/25 18:51	1

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Client Sample Results

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

Job ID: 880-58331-1
SDG: 2698

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-58331-6

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/20/25 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/20/25 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 08:15	05/20/25 21:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 08:15	05/20/25 21:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 08:15	05/20/25 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	05/20/25 08:15	05/20/25 21:34	1
o-Terphenyl (Surr)	113		70 - 130	05/20/25 08:15	05/20/25 21:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		10.0		mg/Kg			05/21/25 00:02	1

Surrogate Summary

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

Job ID: 880-58331-1
SDG: 2698

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-58331-1	CS-1 (1.5')	134 S1+	91
880-58331-2	CS-2 (1.5')	132 S1+	90
880-58331-3	SW-1 (1.5')	137 S1+	90
880-58331-4	SW-2 (1.5')	138 S1+	91
880-58331-5	SW-3 (1.5')	140 S1+	89
880-58331-6	SW-4 (1.5')	141 S1+	90
890-8180-A-14-E MS	Matrix Spike	133 S1+	96
890-8180-A-14-F MSD	Matrix Spike Duplicate	133 S1+	96
LCS 880-110495/1-A	Lab Control Sample	132 S1+	95
LCSD 880-110495/2-A	Lab Control Sample Dup	136 S1+	94
MB 880-110495/5-A	Method Blank	124	89
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)
880-58331-1	CS-1 (1.5')	105	112
880-58331-2	CS-2 (1.5')	108	113
880-58331-3	SW-1 (1.5')	103	108
880-58331-4	SW-2 (1.5')	105	110
880-58331-5	SW-3 (1.5')	106	110
880-58331-6	SW-4 (1.5')	109	113
890-8183-A-1-B MS	Matrix Spike	118	120
890-8183-A-1-C MSD	Matrix Spike Duplicate	119	120
LCS 880-110486/2-A	Lab Control Sample	116	117
LCSD 880-110486/3-A	Lab Control Sample Dup	103	105
MB 880-110486/1-A	Method Blank	106	113
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

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

Job ID: 880-58331-1
SDG: 2698

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110495/5-A

Matrix: Solid

Analysis Batch: 110491

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:43	05/20/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:43	05/20/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:43	05/20/25 11:27	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/20/25 08:43	05/20/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:43	05/20/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 08:43	05/20/25 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	05/20/25 08:43	05/20/25 11:27	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/20/25 08:43	05/20/25 11:27	1

Lab Sample ID: LCS 880-110495/1-A

Matrix: Solid

Analysis Batch: 110491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1007		mg/Kg		101	70 - 130
Toluene	0.100	0.1080		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1139		mg/Kg		114	70 - 130
m,p-Xylenes	0.200	0.2249		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-110495/2-A

Matrix: Solid

Analysis Batch: 110491

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1021		mg/Kg		102	70 - 130	1	35
Toluene	0.100	0.1092		mg/Kg		109	70 - 130	1	35
Ethylbenzene	0.100	0.1136		mg/Kg		114	70 - 130	0	35
m,p-Xylenes	0.200	0.2249		mg/Kg		112	70 - 130	0	35
o-Xylene	0.100	0.1129		mg/Kg		113	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-8180-A-14-E MS

Matrix: Solid

Analysis Batch: 110491

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110495

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09541		mg/Kg		95	70 - 130
Toluene	<0.00200	U	0.100	0.1014		mg/Kg		101	70 - 130

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QC Sample Results

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

Job ID: 880-58331-1
SDG: 2698

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

Lab Sample ID: 890-8180-A-14-E MS

Matrix: Solid

Analysis Batch: 110491

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110495

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1047		mg/Kg		105	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.2050		mg/Kg		103	70 - 130
o-Xylene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-8180-A-14-F MSD

Matrix: Solid

Analysis Batch: 110491

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 110495

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	0.09460		mg/Kg		95	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.1025		mg/Kg		102	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1072		mg/Kg		107	70 - 130	2	35
m,p-Xylenes	<0.00399	U	0.200	0.2132		mg/Kg		107	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.1065		mg/Kg		106	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110486

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

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110486

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-58331-1
SDG: 2698

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110486

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110486

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

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110486

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

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 110486

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

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-58331-1
SDG: 2698

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110545/1-A
Matrix: Solid
Analysis Batch: 110549

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-110545/2-A
Matrix: Solid
Analysis Batch: 110549

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-110545/3-A
Matrix: Solid
Analysis Batch: 110549

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

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

Lab Sample ID: 880-58313-A-1-F MS
Matrix: Solid
Analysis Batch: 110549

Client Sample ID: Matrix Spike
Prep Type: Soluble

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

Lab Sample ID: 880-58313-A-1-G MSD
Matrix: Solid
Analysis Batch: 110549

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

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

QC Association Summary

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

Job ID: 880-58331-1
SDG: 2698

GC VOA

Analysis Batch: 110491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58331-1	CS-1 (1.5')	Total/NA	Solid	8021B	110495
880-58331-2	CS-2 (1.5')	Total/NA	Solid	8021B	110495
880-58331-3	SW-1 (1.5')	Total/NA	Solid	8021B	110495
880-58331-4	SW-2 (1.5')	Total/NA	Solid	8021B	110495
880-58331-5	SW-3 (1.5')	Total/NA	Solid	8021B	110495
880-58331-6	SW-4 (1.5')	Total/NA	Solid	8021B	110495
MB 880-110495/5-A	Method Blank	Total/NA	Solid	8021B	110495
LCS 880-110495/1-A	Lab Control Sample	Total/NA	Solid	8021B	110495
LCSD 880-110495/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110495
890-8180-A-14-E MS	Matrix Spike	Total/NA	Solid	8021B	110495
890-8180-A-14-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110495

Prep Batch: 110495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58331-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-58331-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-58331-3	SW-1 (1.5')	Total/NA	Solid	5035	
880-58331-4	SW-2 (1.5')	Total/NA	Solid	5035	
880-58331-5	SW-3 (1.5')	Total/NA	Solid	5035	
880-58331-6	SW-4 (1.5')	Total/NA	Solid	5035	
MB 880-110495/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110495/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110495/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8180-A-14-E MS	Matrix Spike	Total/NA	Solid	5035	
890-8180-A-14-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 110619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58331-1	CS-1 (1.5')	Total/NA	Solid	Total BTEX	
880-58331-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	
880-58331-3	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-58331-4	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-58331-5	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-58331-6	SW-4 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58331-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-58331-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-58331-3	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-58331-4	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-58331-5	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-58331-6	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-110486/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110486/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8183-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8183-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

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

Job ID: 880-58331-1
SDG: 2698

GC Semi VOA

Analysis Batch: 110523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58331-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	110486
880-58331-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	110486
880-58331-3	SW-1 (1.5')	Total/NA	Solid	8015B NM	110486
880-58331-4	SW-2 (1.5')	Total/NA	Solid	8015B NM	110486
880-58331-5	SW-3 (1.5')	Total/NA	Solid	8015B NM	110486
880-58331-6	SW-4 (1.5')	Total/NA	Solid	8015B NM	110486
MB 880-110486/1-A	Method Blank	Total/NA	Solid	8015B NM	110486
LCS 880-110486/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110486
LCSD 880-110486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110486
890-8183-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	110486
890-8183-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110486

Analysis Batch: 110614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58331-1	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-58331-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-58331-3	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-58331-4	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-58331-5	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-58331-6	SW-4 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58331-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-58331-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-58331-3	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-58331-4	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-58331-5	SW-3 (1.5')	Soluble	Solid	DI Leach	
880-58331-6	SW-4 (1.5')	Soluble	Solid	DI Leach	
MB 880-110545/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110545/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110545/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58313-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-58313-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 110549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58331-1	CS-1 (1.5')	Soluble	Solid	300.0	110545
880-58331-2	CS-2 (1.5')	Soluble	Solid	300.0	110545
880-58331-3	SW-1 (1.5')	Soluble	Solid	300.0	110545
880-58331-4	SW-2 (1.5')	Soluble	Solid	300.0	110545
880-58331-5	SW-3 (1.5')	Soluble	Solid	300.0	110545
880-58331-6	SW-4 (1.5')	Soluble	Solid	300.0	110545
MB 880-110545/1-A	Method Blank	Soluble	Solid	300.0	110545
LCS 880-110545/2-A	Lab Control Sample	Soluble	Solid	300.0	110545
LCSD 880-110545/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110545
880-58313-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	110545
880-58313-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110545

Eurofins Midland

Lab Chronicle

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

Job ID: 880-58331-1
SDG: 2698

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-58331-1

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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	110495	05/20/25 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110491	05/20/25 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110619	05/20/25 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			110614	05/20/25 20:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110486	05/20/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110523	05/20/25 20:02	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110545	05/20/25 12:58	SA	EET MID
Soluble	Analysis	300.0		1			110549	05/20/25 23:12	SMC	EET MID

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-58331-2

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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	110495	05/20/25 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110491	05/20/25 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110619	05/20/25 17:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			110614	05/20/25 20:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110486	05/20/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110523	05/20/25 20:19	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110545	05/20/25 12:58	SA	EET MID
Soluble	Analysis	300.0		1			110549	05/20/25 23:20	SMC	EET MID

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-58331-3

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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	110495	05/20/25 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110491	05/20/25 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110619	05/20/25 17:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110614	05/20/25 20:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110486	05/20/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110523	05/20/25 20:33	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110545	05/20/25 12:58	SA	EET MID
Soluble	Analysis	300.0		1			110549	05/20/25 23:27	SMC	EET MID

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-58331-4

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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	110495	05/20/25 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110491	05/20/25 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110619	05/20/25 18:10	SM	EET MID

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Lab Chronicle

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

Job ID: 880-58331-1
SDG: 2698

Client Sample ID: SW-2 (1.5')
Date Collected: 05/16/25 00:00
Date Received: 05/20/25 10:15

Lab Sample ID: 880-58331-4
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			110614	05/20/25 20:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110486	05/20/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110523	05/20/25 20:48	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110545	05/20/25 12:58	SA	EET MID
Soluble	Analysis	300.0		1			110549	05/20/25 23:48	SMC	EET MID

Client Sample ID: SW-3 (1.5')
Date Collected: 05/16/25 00:00
Date Received: 05/20/25 10:15

Lab Sample ID: 880-58331-5
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	110495	05/20/25 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110491	05/20/25 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110619	05/20/25 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			110614	05/20/25 21:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110486	05/20/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110523	05/20/25 21:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110545	05/20/25 12:58	SA	EET MID
Soluble	Analysis	300.0		1			110549	05/20/25 23:55	SMC	EET MID

Client Sample ID: SW-4 (1.5')
Date Collected: 05/16/25 00:00
Date Received: 05/20/25 10:15

Lab Sample ID: 880-58331-6
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	110495	05/20/25 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110491	05/20/25 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110619	05/20/25 18:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			110614	05/20/25 21:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110486	05/20/25 08:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110523	05/20/25 21:34	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110545	05/20/25 12:58	SA	EET MID
Soluble	Analysis	300.0		1			110549	05/21/25 00:02	SMC	EET MID

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

Accreditation/Certification Summary

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

Job ID: 880-58331-1
SDG: 2698

Laboratory: Eurofins Midland

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

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

Method Summary

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

Job ID: 880-58331-1
SDG: 2698

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-58331-1
SDG: 2698

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58331-1	CS-1 (1.5')	Solid	05/16/25 00:00	05/20/25 10:15
880-58331-2	CS-2 (1.5')	Solid	05/16/25 00:00	05/20/25 10:15
880-58331-3	SW-1 (1.5')	Solid	05/16/25 00:00	05/20/25 10:15
880-58331-4	SW-2 (1.5')	Solid	05/16/25 00:00	05/20/25 10:15
880-58331-5	SW-3 (1.5')	Solid	05/16/25 00:00	05/20/25 10:15
880-58331-6	SW-4 (1.5')	Solid	05/16/25 00:00	05/20/25 10:15

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Chain of Custody



880-58331 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: EDO ☐ ADAPT ☐ Other:

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

[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
	5/20/15 11:15		5/20/15 11:15

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-58331-1

SDG Number: 2698

Login Number: 58331

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

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

JOB DESCRIPTION

Black Pearl 1 Federal 1H
2698

JOB NUMBER

880-58332-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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5/21/2025 12:04:33 PM

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

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

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

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Definitions/Glossary

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

Job ID: 880-58332-1
SDG: 2698

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

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

Job ID: 880-58332-1

Job ID: 880-58332-1

Eurofins Midland

Job Narrative 880-58332-1

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

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

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

Receipt

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

GC VOA

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

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

Diesel Range Organics

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

HPLC/IC

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

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

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

Eurofins Midland

Client Sample Results

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

Job ID: 880-58332-1
SDG: 2698

Client Sample ID: Backfill Material

Lab Sample ID: 880-58332-1

Date Collected: 05/16/25 00:00

Matrix: Solid

Date Received: 05/20/25 10:15

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Surrogate Summary

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

Job ID: 880-58332-1
SDG: 2698

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

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

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

Matrix: Solid

Prep Type: Total/NA

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

QC Sample Results

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

Job ID: 880-58332-1
SDG: 2698

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110499/5-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110499

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

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

Lab Sample ID: LCS 880-110499/1-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110499

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

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

Lab Sample ID: LCSD 880-110499/2-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110499

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

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

Lab Sample ID: 890-8178-A-1-C MS
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110499

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-58332-1
SDG: 2698

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

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

Matrix: Solid

Analysis Batch: 110543

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110499

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

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

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

Matrix: Solid

Analysis Batch: 110543

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 110499

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

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

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110486

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

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110486

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-58332-1
SDG: 2698

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110486

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110486

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

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 110486

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

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

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

Matrix: Solid

Analysis Batch: 110523

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 110486

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

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-58332-1
SDG: 2698

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110545/1-A
Matrix: Solid
Analysis Batch: 110549

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-110545/2-A
Matrix: Solid
Analysis Batch: 110549

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-110545/3-A
Matrix: Solid
Analysis Batch: 110549

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

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

Lab Sample ID: 880-58313-A-1-F MS
Matrix: Solid
Analysis Batch: 110549

Client Sample ID: Matrix Spike
Prep Type: Soluble

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

Lab Sample ID: 880-58313-A-1-G MSD
Matrix: Solid
Analysis Batch: 110549

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

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

QC Association Summary

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

Job ID: 880-58332-1
SDG: 2698

GC VOA

Prep Batch: 110499

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

Analysis Batch: 110543

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

Analysis Batch: 110623

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

GC Semi VOA

Prep Batch: 110486

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

Analysis Batch: 110523

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

Analysis Batch: 110615

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

HPLC/IC

Leach Batch: 110545

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

Eurofins Midland

QC Association Summary

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

Job ID: 880-58332-1
SDG: 2698

HPLC/IC (Continued)

Leach Batch: 110545 (Continued)

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

Analysis Batch: 110549

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

Lab Chronicle

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

Job ID: 880-58332-1
SDG: 2698

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

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

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

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

Accreditation/Certification Summary

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

Job ID: 880-58332-1
SDG: 2698

Laboratory: Eurofins Midland

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

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

Method Summary

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

Job ID: 880-58332-1
SDG: 2698

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-58332-1
SDG: 2698

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

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

Chain of Custody



380-58332 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)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

[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
	5/20/15 10:15		5/20/15 10:15

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-58332-1

SDG Number: 2698

Login Number: 58332

List Source: Eurofins Midland

List Number: 1

Creator: Lee, Randell

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

From: [Ashton Thielke](#)
To: [Wells, Shelly, EMNRD](#)
Subject: [EXTERNAL] RE: NAPP2509442530 BLACK PEARL 1 FEDERAL 1H
Date: Tuesday, June 17, 2025 7:25:30 PM
Attachments: [image001.png](#)
[Figure 4 - NAPP2509442530 BLACK PEARL 1 FEDERAL 1H.pdf](#)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon Shelly,

Please see the amended Figure 4.

I sincerely apologize for the mistake on our end.

Please let me know if you have any questions!

Thanks!

Ashton Thielke
Environmental Manager
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659
ThielkeA@carmonaresources.com
[Environmental Consulting Firm - Carmona Resources](#)

CARMONA RESOURCES



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, June 17, 2025 5:38 PM
To: Ashton Thielke <ThielkeA@carmonaresources.com>
Subject: NAPP2509442530 BLACK PEARL 1 FEDERAL 1H

Hi Ashton,

I am reviewing NAPP2509442530 BLACK PEARL 1 FEDERAL 1H and noticed on Figure 4 that the location of the sidewall samples SW-1 through SW-4 is missing and in their stead are H-1 through H-4. Can you provide a corrected figure to me please?

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



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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 473130

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 473130
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509442530
Incident Name	NAPP2509442530 BLACK PEARL 1 FEDERAL 1H @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2202756980] Black Pearl 1 Fed 1H Battery

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Black Pearl 1 Federal 1H
Date Release Discovered	04/03/2025
Surface Owner	Federal

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

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

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QUESTIONS, Page 2

Action 473130

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 473130
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Emergency services were not notified Release was confined to the well pad Facility has been cleared by safety personnel

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/17/2025
--	---

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QUESTIONS, Page 3

Action 473130

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	473130
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 51 and 75 (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 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<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)	138
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	164
GRO+DRO (EPA SW-846 Method 8015M)	164
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	05/15/2025
On what date will (or did) the final sampling or liner inspection occur	05/16/2025
On what date will (or was) the remediation complete(d)	05/28/2025
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	289
What is the estimated volume (in cubic yards) that will be remediated	17
<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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QUESTIONS, Page 4

Action 473130

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	473130
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/11/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 473130

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 473130
	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

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 6

Action 473130

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 473130
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	461447
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2025
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	289

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	289
What was the total volume (cubic yards) remediated	17
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)	na
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/11/2025

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QUESTIONS, Page 7

Action 473130

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 473130
	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 473130

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 473130
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/18/2025