CARMONA RESOURCES

SITE INFORMATION

Closure Report
Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)
Incident ID: nAPP2428155987
Unit I Sec 14 T25S R34E
32.1303372°, -103.4355043°
Lea County, New Mexico

Produced Water Release
Point of Release: Equipment Failure; improper connection between flowline and transfer pump
Release Date: 10.07.2024
Volume Released: 172 Barrels of Produced Water
Volume Recovered: 172 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Marathon Oil Corporation
990 Town and Country Blvd,
Houston, Texas 77024

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

CARMONA RESOURCES

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

CARMONA RESOURCES

February 26, 2025

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

Re: Closure Report
Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)
Marathon Oil Corporation
Incident ID: nAPP2428155987
Site Location: Unit I, S14, T25S, R34E
(Lat 32.1303372º, Long -103.4355043°)
Lea County, New Mexico

To whom it may concern:

On behalf of Marathon Oil Corporation, Carmona Resources, LLC has prepared this letter to document the Dogie Draw E25 W25 Fed Com CTB TB site activities. The site is located at 32.1303372°, -103.4355043° within Unit I, S14, T25S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the incident was discovered on October 7, 2024, due to the improper connection between a flowline and transfer pump. The incident released approximately one hundred seventy-two (172) barrels of produced water, with one hundred seventy-two (172) barrels of produced water recovered. All fluids were contained on pad. See 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 well is located approximately 0.80 miles West of the site in S15, T25S, R34E and was drilled in 2013. The well has a reported groundwater depth of 174.06' feet below the ground surface (ft bgs). The second closest well is located approximately 1.71 miles Southeast of the site in S24, T25S, R34E and was drilled in 1949. The well has a reported groundwater depth of 300' feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

On October 23, 2024, the New Mexico Oil Conservation Division (NMOCD) was notified via email requesting a groundwater variance per the groundwater criteria established in 19.15.29.14 NMAC. The surrounding wells indicate the depth to groundwater at this site is estimated to being greater than 100' feet below the ground surface (ft bgs). The variance request was approved and granted by the NMOCD on October 25, 2024. See Appendix C for the NMOCD correspondence.

3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 20,000 mg/kg.

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4.0 Site Assessment Activities

On October 15, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical and horizontal extent, five (5) trench points (S-1 through S-5) and eight (8) horizontal points (H-1 through H-8) were advanced to depths ranging from the surface to 4' bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

All samples were below the established regulatory criteria for TPH, BTEX, and chloride. See Table 1 for the analytical results.

5.0 Confirmation Sampling Activities

A single confirmation sample was requested by the NMOCD. Carmona Resources personnel were on site to collect a confirmation sample. Before collecting composite confirmation samples, the NMOCD division office was notified via email on January 7, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of one (1) floor confirmation samples were collected (CS-1) 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 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.

6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

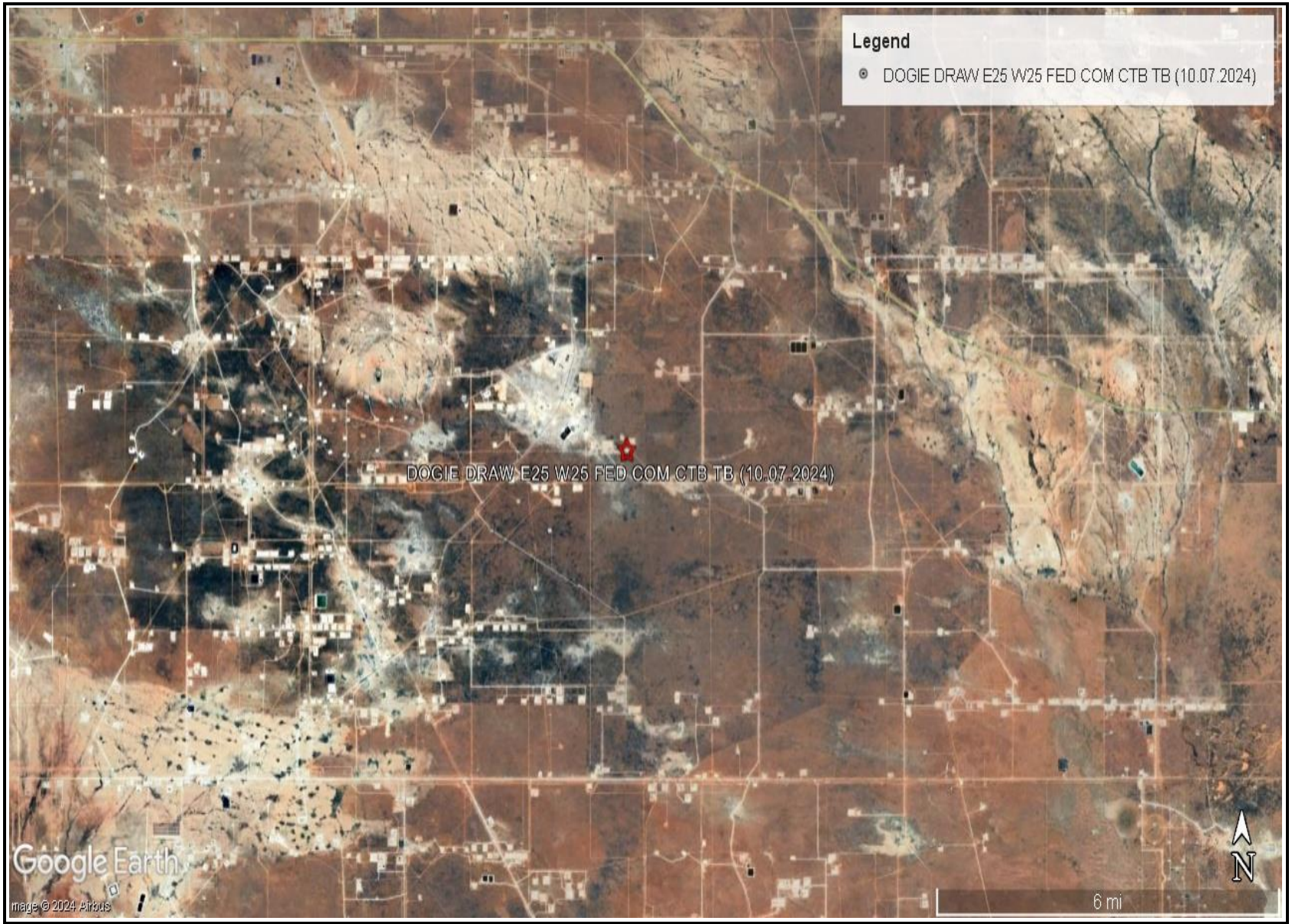
Conner Moehring
Sr. Project Manager

Ivan Ramos
Project Manager

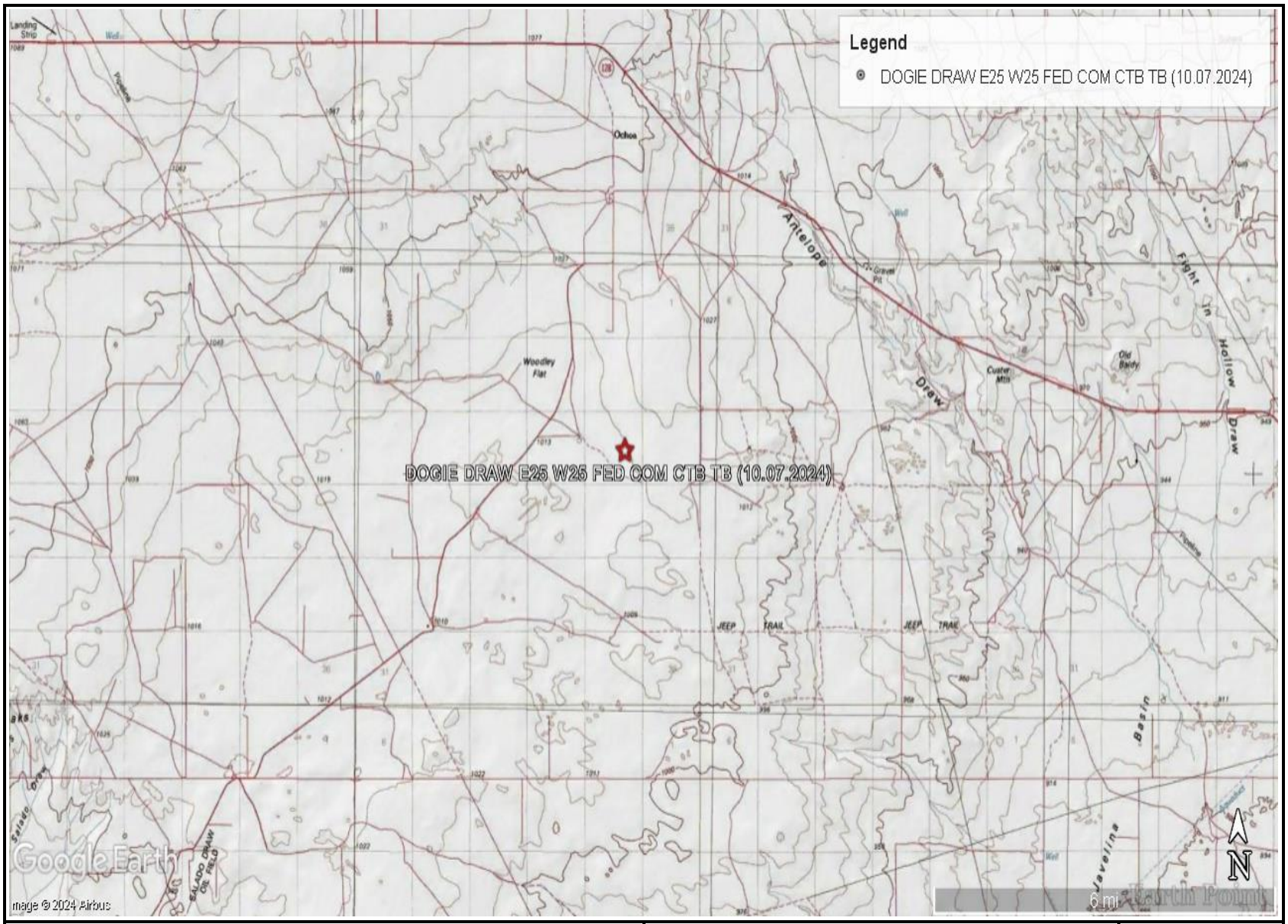
310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

FIGURES

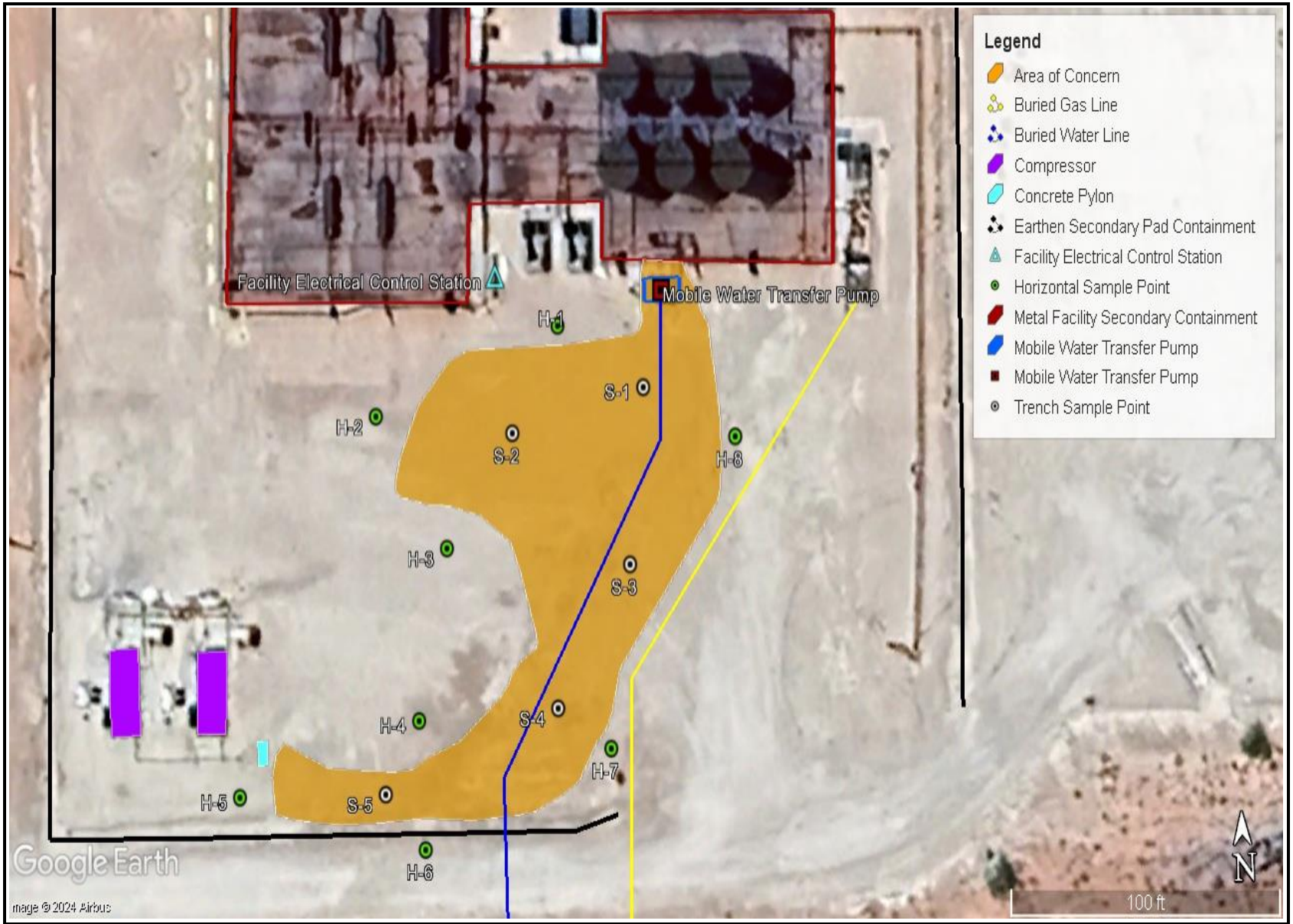
CARMONA RESOURCES



OVERVIEW MAP MARATHON OIL CORPORATION DOGIE DRAW E25 W25 FED COM CTB TB (10.07.24) LEA COUNTY, NEW MEXICO 32.1303372°, -103.4355043°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP MARATHON OIL CORPORATION DOGIE DRAW E25 W25 FED COM CTB TB (10.07.24) LEA COUNTY, NEW MEXICO 32.1303372°, -103.4355043°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP MARATHON OIL CORPORATION DOGIE DRAW E25 W25 FED COM CTB TB (10.07.24) LEA COUNTY, NEW MEXICO 32.1303372°, -103.4355043°	CARMONA RESOURCES	FIGURE 3

CONFIRMATION SAMPLE MAP MARATHON OIL CORPORATION DOGIE DRAW E25 W25 FED COM CTB TB (10.07.24) LEA COUNTY, NEW MEXICO 32.1303372°, -103.4355043°	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES

Table 1
Marathon Oil
Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	0.00455	0.0157	0.0202	2,810
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,080
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,710
	"	3'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	29.9
S-2	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	455
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.92
	"	2'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<10.1
S-3	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,860
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,590
	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00199	0.00216	<0.00199	<0.00398	<0.00398	2,880
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	49.5
S-4	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,180
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,530
	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,710
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,250
	"	4'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	43.1
S-5	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,180
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	13.8
	"	2'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	10.0
	"	3'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<10.1
H-1	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00401	<0.00401	<0.00401	<10.0
H-2	10/15/2024	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00398	<0.00398	<0.00398	<10.1
H-3	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00399	<0.00399	<0.00399	<9.98
H-4	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00397	<0.00397	<0.00397	<10.0
H-5	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00402	<0.00402	<0.00402	<9.96
H-6	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00401	<0.00401	<0.00401	<9.92
H-7	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00398	<0.00398	<0.00398	<10.1
H-8	10/15/2024	0-1'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00398	<0.00398	<0.00398	<9.92
BACKGROUND	10/15/2024	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	22.8
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(S) Sample Point
(H) Horizontal Point

Table 2
Marathon Oil
Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	1/10/2025	Surface	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,190
Regulatory Criteria [A]			**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**20,000 mg/kg**

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) Confirmation Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 1

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View Southwest of area of concern.

Photograph No. 2

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View South of area of concern.

Photograph No. 3

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View East of area of concern.

PHOTOGRAPHIC LOG

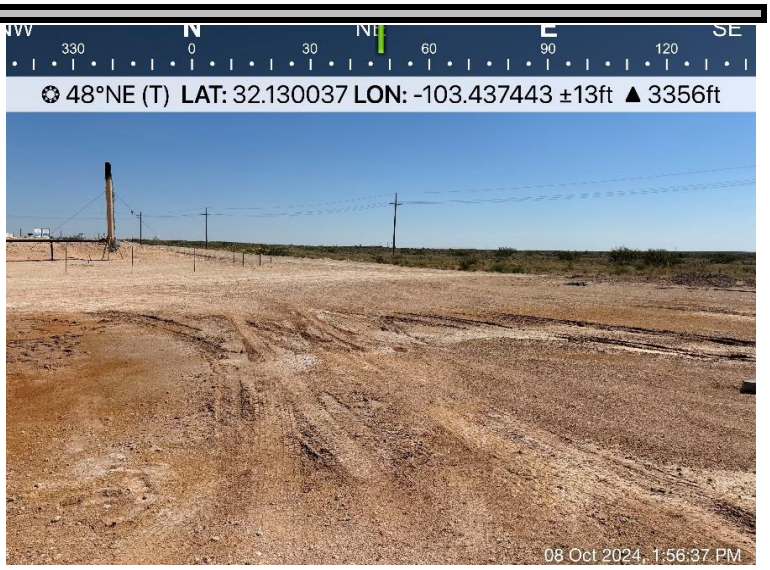
Marathon Oil Corporation

Photograph No. 4

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View Northeast of area of concern.



Photograph No. 5

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

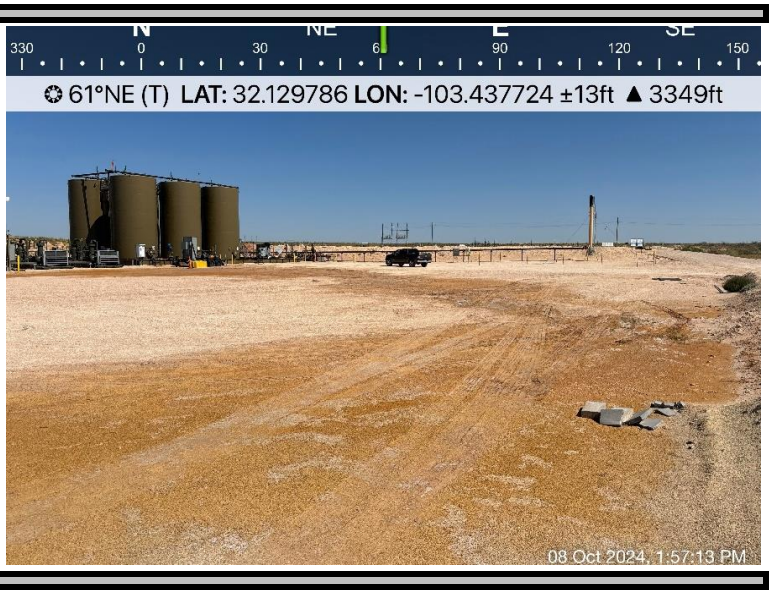
Description:
View Southeast of area of concern.

Photograph No. 6

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View Northeast of area of concern.



PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 7

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

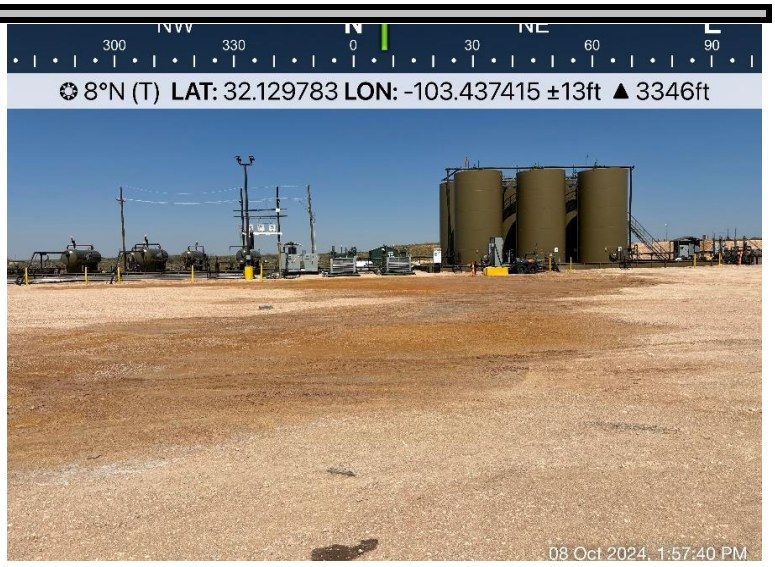
Description:
View West of area of concern.

Photograph No. 8

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View North of area of concern.

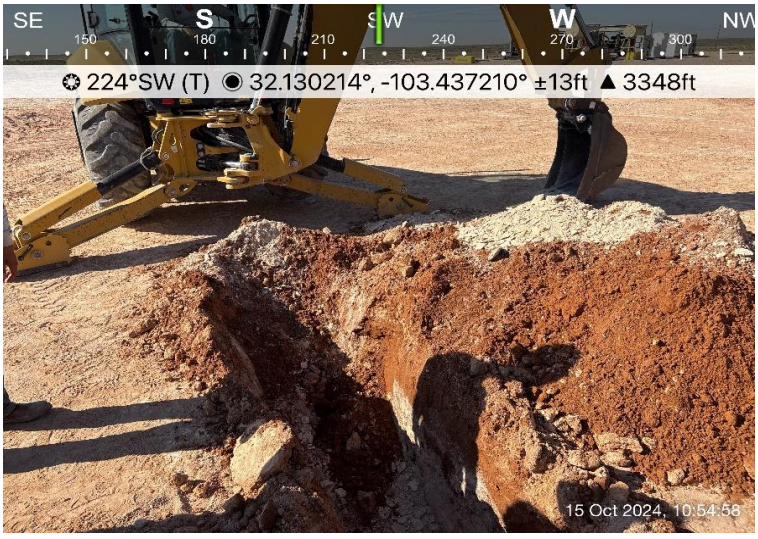


Photograph No. 9

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View Southwest, area of S-1.



PHOTOGRAPHIC LOG

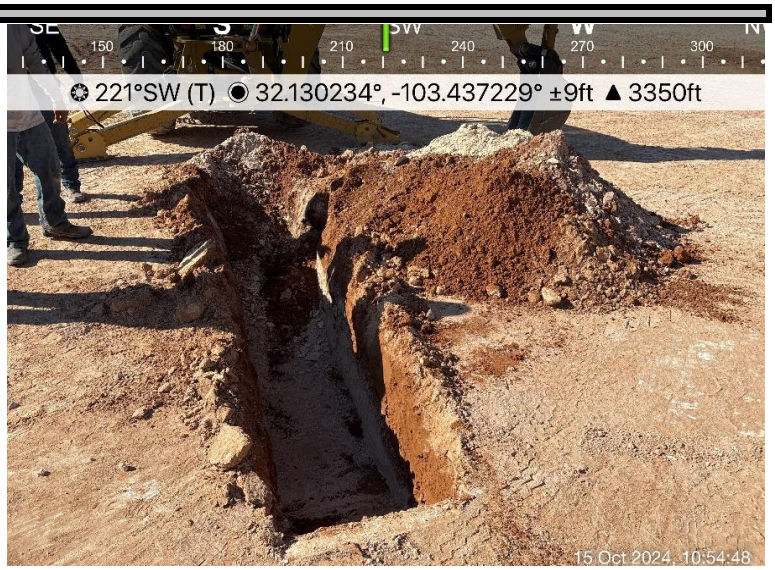
Marathon Oil Corporation

Photograph No. 10

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View Southwest, area of S-2.

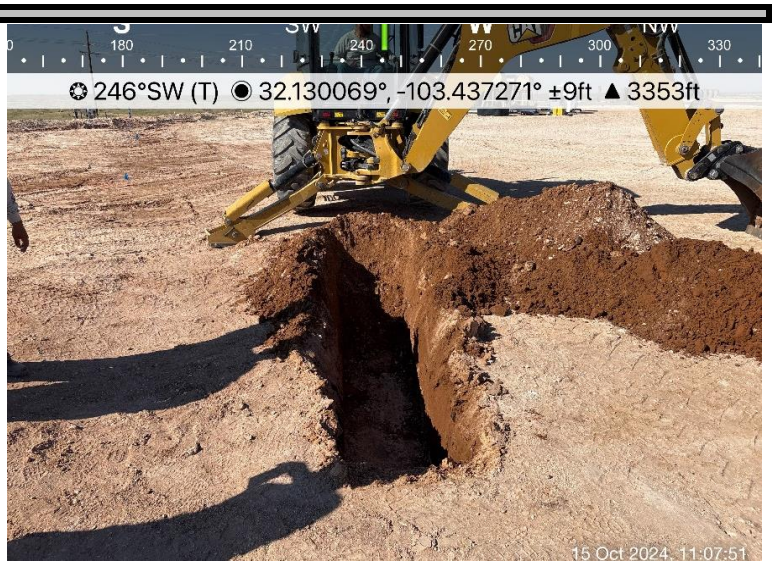


Photograph No. 11

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View Southwest, area of S-3.



Photograph No. 12

Facility: Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

County: Lea County, New Mexico

Description:
View Southeast, area of S-4.

APPENDIX C

CARMONA RESOURCES

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

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

QUESTIONS

Action 390494

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 390494
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	DOGIE DRAW E25 W25 FED COM CTB TB
Date Release Discovered	10/07/2024
Surface Owner	Private

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

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 172 BBL | Recovered: 172 BBL | Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A flow line connected to a water transfer pump failed resulting in a release of 171.8 bbl of produced water onto location. Recovery efforts are ongoing. The leak is isolated.

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 390494
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

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

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

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 390494
	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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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 390494

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	372098
	Action Number: 390494
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
cswansonsteege	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/7/2024

MRO Spill Calculation Tool

Standing Liquid Inputs:

	Length (ft.)	Width (ft.) (Area for Displacement)	Avg. Liquid Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1	70	54	3		168.31	168.31	0.00
Rectangle Area #2	4	5	12		3.56	3.56	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
				Liquid Volume:	171.87	171.87	0.00

Saturated Soil Inputs: Soil Type: Gravel or Sand

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

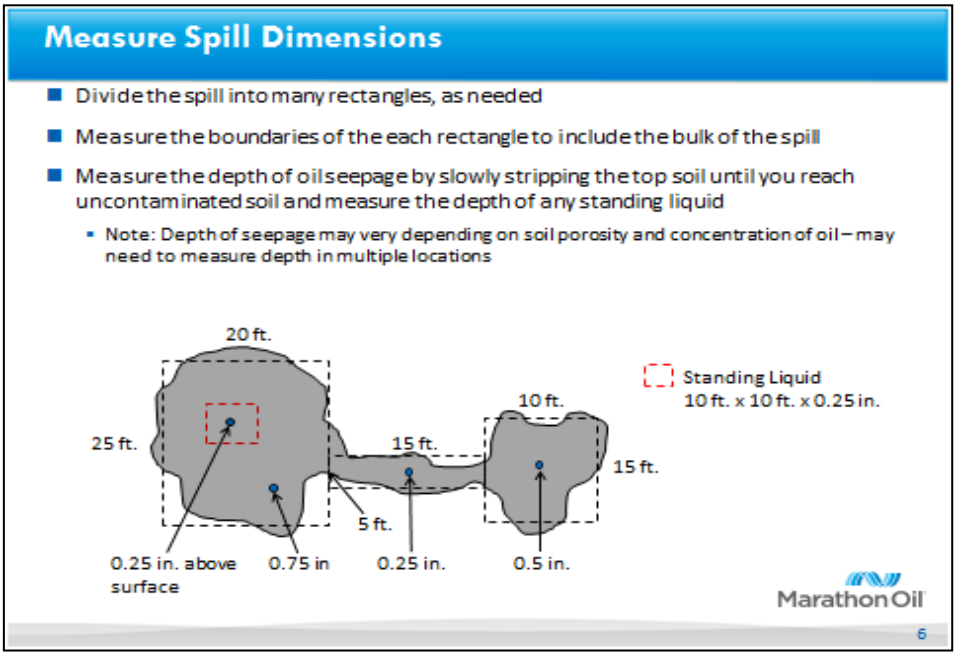
	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Total Spill Volume (bbls):	171.87	171.87	0.00
Total Spill Volume (gals):	7218.70	7218.70	0.00

Comments:

Color Key:	Required Input Cells	Supplemental Input Cells	No Input (Calculations)	No Input

Ground/Vegetation Overspray

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



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

Number of Tanks	Area of Displacement (Ft2)
12	2256

0.125
0.25
0.5
0.75

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

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QUESTIONS

Action 399577

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 399577
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2428155987**
Incident Name	**NAPP2428155987 DOGIE DRAW E25 W25 FED COM CTB TB @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Received**
Incident Facility	**[fAPP2415147694] DOGIE DRAW E25 W25 FED COM CTB TB**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DOGIE DRAW E25 W25 FED COM CTB TB
Date Release Discovered	10/07/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 172 BBL | Recovered: 172 BBL | Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A flow line connected to a water transfer pump failed resulting in a release of 171.8 bbl of produced water onto location. Recovery efforts are ongoing. The leak is isolated.

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 399577
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

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

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

I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 11/12/2024

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 399577
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	*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	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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CONDITIONS

Action 399577

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 399577
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/13/2024

Conner Moehring

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, October 25, 2024 10:21 AM
To: Conner Moehring
Cc: Mike Carmona; Devin Dominguez; Stephen Reyes
Subject: Re: [EXTERNAL] Marathon - Dogie Draw Ender Wiggins - Groundwater Variance

Good morning Conner,

Thank you for the correspondence and information. Your variance per 19.15.29.14 NMAC toward the depth to water estimate being >100 feet below grade is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Wednesday, October 23, 2024 12:46 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>; Stephen Reyes <SReyes@carmonaresources.com>
Subject: [EXTERNAL] Marathon - Dogie Draw Ender Wiggins - Groundwater Variance

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

Marathon had a release at the above-mentioned site. The groundwater research and the table showing the lab results for the initial assessment are attached. Marathon requests a groundwater variance utilizing the USGS water well located 0.80 miles to the West and the reported groundwater of 174.06'. The other wells in the area are dry at a 100' below the ground surface and reported depth to water being deeper. The spill occurred and stayed on the pad and in a low karst area.

Please call if you have any questions or need any additional information.

Conner R. Moehring
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-6823
cmoehring@carmonaresources.com

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 418083

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 418083
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2428155987**
Incident Name	**NAPP2428155987 DOGIE DRAW E25 W25 FED COM CTB TB @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2415147694] DOGIE DRAW E25 W25 FED COM CTB TB**

Location of Release Source	
Site Name	**DOGIE DRAW E25 W25 FED COM CTB TB**
Date Release Discovered	**10/07/2024**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	1
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/10/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Conner Moehring - 4328136823
Please provide any information necessary for navigation to sampling site	32.130218, -103.437230

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

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Santa Fe, NM 87505

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 418083
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cmoehring	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.	1/7/2025

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

Marathon Oil Permian LLC

215.36' - Drilled 1970

174.06' - Drilled 2013

DOGIE DRAW E25 W25 FED COM CTB TB (10.07.2024)

300' - Drilled 1949

Legend

- 0.50 Mile Radius
- 0.80 Miles
- 1.71 Miles
- 1.81 Miles
- DOGIE DRAW E25 W25 FED COM CTB TB (10.07.2024)
- NMSEO Water Well
- USGS Water Well

Google Earth

1 mi

N

Released to Imaging: 4/9/2025 10:23:24 AM

Image © 2024 Airbus

Low Karst

Marathon Oil Permian LLC

Legend

- DOGIE DRAW E25 W25 FED COM CTB TB (10.07.2024)
- Low

DOGIE DRAW E25 W25 FED COM CTB TB (10.07.2024)

Google Earth

Released to Imaging: 4/9/2025 10:23:24 AM

Image © 2024 Airbus

N

1 mi

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 02314		CUB	LE	NE	SE	NE	15	25S	34E	646116.1	3556179.4		1323	175	135	40
C 02315		CUB	LE	NE	SE	NE	15	25S	34E	646094.9	3556194.5		1347	175	135	40
C 02299		CUB	LE	SE	NE	SE	24	25S	34E	649516.9	3554125.1		2761	350	300	50
C 02296		CUB	LE	SW	SE	NE	18	25S	35E	650845.7	3556088.3		3438	300	230	70

Average Depth to Water: **200 feet**

Minimum Depth: **135 feet**

Maximum Depth: **300 feet**

Record Count: 4

UTM Filters (in meters):

Easting: 647412.00

Northing: 3555912.00

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 warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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	? Metho measu

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.
- How are we doing? We want to hear from you. Take our quick survey to tell us what you think.

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320738103270501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320738103270501 25S.34E.15.24234

Lea County, New Mexico
Latitude 32°07'57.1", Longitude 103°27'02.4" NAD83
Land-surface elevation 3,345.00 feet above NGVD29
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 of measurement	? Water-level approval status
1954-07-23		D	62610		3180.06	NGVD29	P	Z			A
1954-07-23		D	62611		3181.62	NAVD88	P	Z			A
1954-07-23		D	72019	164.94			P	Z			A
1970-12-08		D	62610		3181.78	NGVD29	P	Z			A
1970-12-08		D	62611		3183.34	NAVD88	P	Z			A
1970-12-08		D	72019	163.22			P	Z			A
1976-01-15		D	62610		3179.20	NGVD29	1	Z			A
1976-01-15		D	62611		3180.76	NAVD88	1	Z			A
1976-01-15		D	72019	165.80			1	Z			A
1981-03-25		D	62610		3182.20	NGVD29	1	Z			A
1981-03-25		D	62611		3183.76	NAVD88	1	Z			A
1981-03-25		D	72019	162.80			1	Z			A
1986-03-12		D	62610		3184.76	NGVD29	1	Z			A
1986-03-12		D	62611		3186.32	NAVD88	1	Z			A
1986-03-12		D	72019	160.24			1	Z			A
1991-06-05		D	62610		3179.90	NGVD29	1	Z			A
1991-06-05		D	62611		3181.46	NAVD88	1	Z			A
1991-06-05		D	72019	165.10			1	Z			A
2013-01-16	21:30 UTC	m	62610		3170.94	NGVD29	P	S	USGS	S	A
2013-01-16	21:30 UTC	m	62611		3172.50	NAVD88	P	S	USGS	S	A
2013-01-16	21:30 UTC	m	72019	174.06			P	S	USGS	S	A

Explanation

Section	Code	Description

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	? Metho measu

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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments
Help
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?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2024-10-14 11:46:27 EDT
0.36 0.27 nadww01

Received by OCD: 2/28/2025 10:57:57 AM

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 02299	SE	NE	SE	24	25S	34E	649516.9	3554125.1	

*** UTM location was derived from PLSS - see Help**

Driller License:	122	**Driller Company:**	UNKNOWN		
Driller Name:	UNKNOWN				
Drill Start Date:		**Drill Finish Date:**	1949-12-31	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	3
Casing Size:	8.00	**Depth Well:**	350	**Depth Water:**	300

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

10/14/24 9:51 AM MST **Point of Diversion Summary**

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Released to Imaging: 4/9/2025 10:23:24 AM

Received by OCD: 2/28/2025 10:57:57 AM

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	? Metho meası

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.
- How are we doing? We want to hear from you. Take our quick survey to tell us what you think.

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320918103254301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320918103254301 25S.34E.01.143

Lea County, New Mexico
Latitude 32°09'18", Longitude 103°25'43" NAD27
Land-surface elevation 3,396 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national 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 of measurement	? Water-level approval status
1953-04-15		D	62610		3162.54	NGVD29	1	Z			A
1953-04-15		D	62611		3164.10	NAVD88	1	Z			A
1953-04-15		D	72019	231.90			1	Z			A
1968-06-12		D	62610		3171.39	NGVD29	1	Z			A
1968-06-12		D	62611		3172.95	NAVD88	1	Z			A
1968-06-12		D	72019	223.05			1	Z			A
1970-12-08		D	62610		3179.08	NGVD29	1	Z			A
1970-12-08		D	62611		3180.64	NAVD88	1	Z			A
1970-12-08		D	72019	215.36			1	Z			A

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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Released to Imaging: 4/9/2025 10:23:24 AM

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	? Metho measu

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?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2024-10-14 11:47:27 EDT
0.32 0.24 nadww01

DOGIE DRAW E25 W25 FED COM CTB TB (10.07.2024)

10/14/2024

World Hillshade

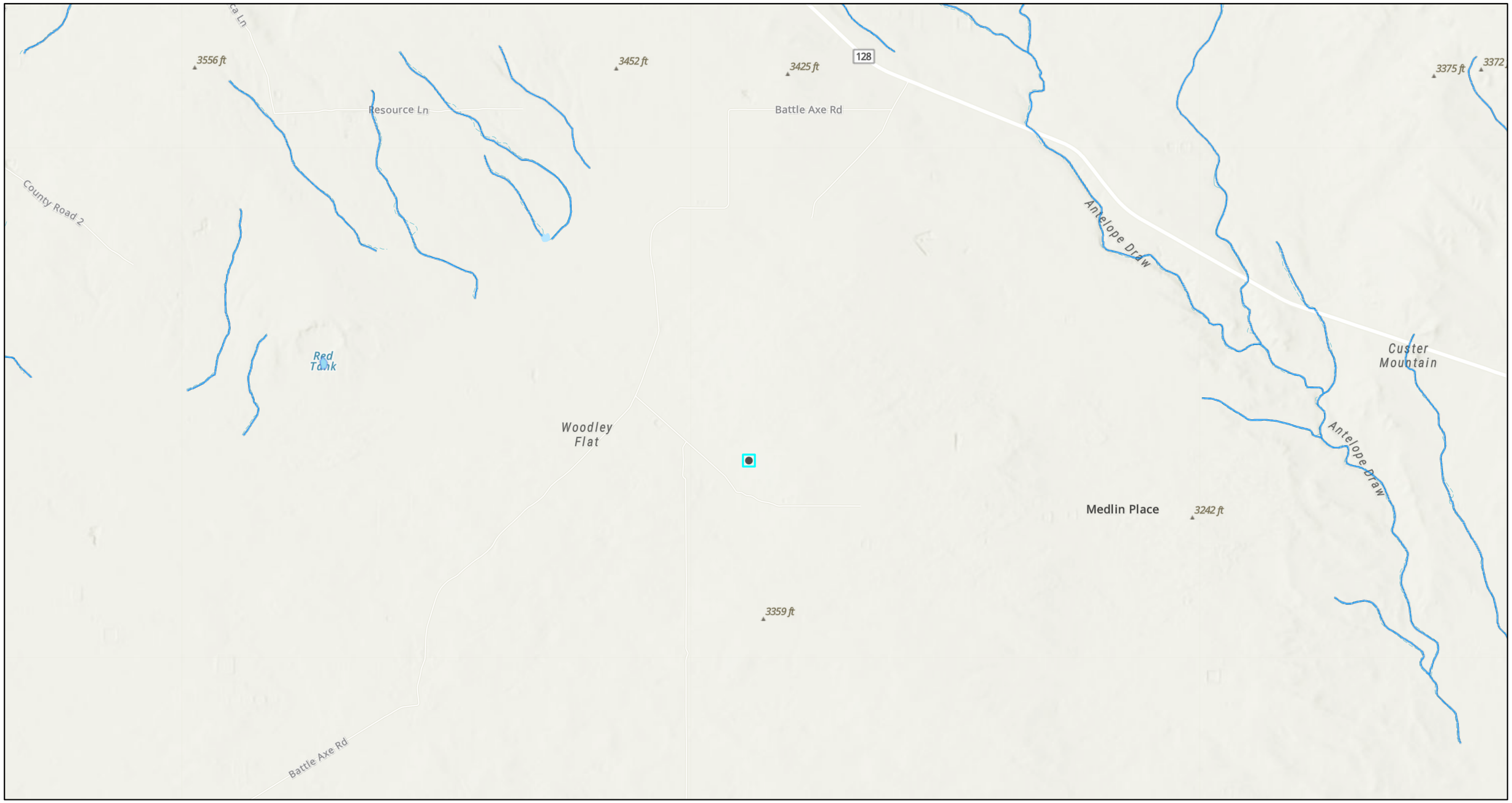
1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS,

DOGIE DRAW E25 W25 FED COM CTB TB (10.07.2024)



10/14/2024, 10:41:18 AM

OSW Water Bodys

OSE Streams

1:72,224

0 0.75 1.5 3 mi

0 1.25 2.5 5 km

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

New Mexico Oil Conservation Division

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/21/2024 12:35:47 PM

JOB DESCRIPTION

Dogie Draw Ender Wiggings
Lea County, New Mexico

JOB NUMBER

880-49854-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/9/2025 10:25:24 AM

my EOL

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
10/21/2024 12:35:47 PM

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

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Laboratory Job ID: 880-49854-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
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.
F2	MS/MSD RPD 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
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: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

Job ID: 880-49854-1 Eurofins Midland

Job Narrative
880-49854-1

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 10/15/2024 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-49854-1), S-1 (1.5') (880-49854-2), S-1 (2') (880-49854-3), S-1 (3') (880-49854-4), S-2 (0-1') (880-49854-5), S-2 (1.5') (880-49854-6), S-2 (2') (880-49854-7), S-3 (0-1') (880-49854-8), S-3 (1.5') (880-49854-9), S-3 (2') (880-49854-10), S-3 (3') (880-49854-11), S-4 (0-1') (880-49854-12), S-4 (1.5') (880-49854-13), S-4 (2') (880-49854-14), S-4 (3') (880-49854-15), S-4 (4') (880-49854-16), S-5 (0-1') (880-49854-17), S-5 (1.5') (880-49854-18), S-5 (2') (880-49854-19) and S-5 (3') (880-49854-20).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-93445 and analytical batch 880-93435 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (0-1') (880-49854-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics
Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-93443 exhibited % difference of > 20% for the following analyte(s)Diesel Range Organics (Over C10-C28). These results are within the acceptance limits but exceed the performance criteria.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-93420 and analytical batch 880-93443 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-93419/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-93419 and analytical batch 880-93440 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-93419/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-93419 and analytical batch 880-93440 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-93419 and analytical batch 880-93440 recovered outside control limits for the following analytes: Gasoline

Case Narrative

Client: Carmona Resources Job ID: 880-49854-1
Project: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 (Continued) Eurofins Midland

Range Organics (GRO)-C6-C10.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-93459 and analytical batch 880-93474 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49854-1
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 12:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
Ethylbenzene	**0.00455**		0.00202		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
m-Xylene & p-Xylene	**0.0114**		0.00404		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
o-Xylene	**0.00426**		0.00202		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
Xylenes, Total	**0.0157**		0.00404		mg/Kg		10/16/24 09:36	10/16/24 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*301*	*S1+*	*70 - 130*	*10/16/24 09:36*	*10/16/24 12:09*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*10/16/24 09:36*	*10/16/24 12:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0202**		0.00404		mg/Kg			10/16/24 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/24 06:18	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	<50.0	U *1	50.0		mg/Kg		10/15/24 19:51	10/17/24 06:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/15/24 19:51	10/17/24 06:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/15/24 19:51*	*10/17/24 06:18*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/15/24 19:51*	*10/17/24 06:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2810**		50.1		mg/Kg			10/16/24 15:36	5

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-49854-2
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 12:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*10/16/24 09:36*	*10/16/24 12:30*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/16/24 09:36*	*10/16/24 12:30*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-49854-2
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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			10/16/24 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/24 06:33	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	<49.9	U *1	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*10/15/24 19:51*	*10/17/24 06:33*	*1*
o-Terphenyl	*94*		*70 - 130*	*10/15/24 19:51*	*10/17/24 06:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5080**	**F1**	101		mg/Kg			10/16/24 15:43	10

Client Sample ID: S-1 (2')

Lab Sample ID: 880-49854-3
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 12:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/16/24 09:36*	*10/16/24 12:50*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/16/24 09:36*	*10/16/24 12:50*	*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			10/16/24 12:50	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			10/17/24 06:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*10/15/24 19:51*	*10/17/24 06:47*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/15/24 19:51*	*10/17/24 06:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3710**		49.6		mg/Kg			10/16/24 16:02	5

Client Sample ID: S-1 (3')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-4
Matrix: Solid

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		10/16/24 09:36	10/16/24 13:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 13:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/16/24 09:36*	*10/16/24 13:11*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/16/24 09:36*	*10/16/24 13:11*	*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			10/16/24 13:11	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			10/17/24 07:02	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 *1	49.8		mg/Kg		10/15/24 19:51	10/17/24 07:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 07:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:51	10/17/24 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:02*	*1*
o-Terphenyl	*99*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.9**		10.1		mg/Kg			10/16/24 16:08	1

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49854-5
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 13:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/16/24 09:36*	*10/16/24 13:31*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/16/24 09:36*	*10/16/24 13:31*	*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			10/16/24 13:31	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			10/17/24 07:16	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		10/15/24 19:51	10/17/24 07:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 07:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:51	10/17/24 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:16*	*1*
o-Terphenyl	*93*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**455**		9.96		mg/Kg			10/16/24 16:27	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-49854-6
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 13:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*10/16/24 09:36*	*10/16/24 13:51*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*10/16/24 09:36*	*10/16/24 13:51*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-49854-6
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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			10/16/24 13:51	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			10/17/24 07:30	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	<49.9	U *1	49.9		mg/Kg		10/15/24 19:51	10/17/24 07:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/15/24 19:51	10/17/24 07:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:51	10/17/24 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:30*	*1*
o-Terphenyl	*91*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			10/16/24 16:33	1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-49854-7
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/16/24 09:36	10/16/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/16/24 09:36*	*10/16/24 14:12*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*10/16/24 09:36*	*10/16/24 14:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/16/24 14:12	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			10/17/24 07:45	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	<49.7	U *1	49.7		mg/Kg		10/15/24 19:51	10/17/24 07:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/15/24 19:51	10/17/24 07:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/15/24 19:51	10/17/24 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:45*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			10/16/24 16:39	1

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

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-8
Matrix: Solid

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		10/16/24 09:36	10/16/24 14:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/16/24 09:36*	*10/16/24 14:32*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/16/24 09:36*	*10/16/24 14:32*	*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			10/16/24 14:32	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			10/17/24 07:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		10/15/24 19:51	10/17/24 07:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/15/24 19:51	10/17/24 07:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 07:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:59*	*1*
o-Terphenyl	*92*		*70 - 130*	*10/15/24 19:51*	*10/17/24 07:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2860**		49.6		mg/Kg			10/16/24 16:46	5

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-49854-9
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 14:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 14:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*10/16/24 09:36*	*10/16/24 14:53*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*10/16/24 09:36*	*10/16/24 14:53*	*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			10/16/24 14:53	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			10/17/24 08:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		10/15/24 19:51	10/17/24 08:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 08:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:51	10/17/24 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/15/24 19:51*	*10/17/24 08:15*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/15/24 19:51*	*10/17/24 08:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1590**		50.4		mg/Kg			10/16/24 16:52	5

Client Sample ID: S-3 (2')

Lab Sample ID: 880-49854-10
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 15:13	1
Toluene	**0.00216**		0.00199		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*10/16/24 09:36*	*10/16/24 15:13*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/16/24 09:36*	*10/16/24 15:13*	*1*

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Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-10
Matrix: Solid

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			10/16/24 15:13	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			10/16/24 19:23	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		10/15/24 19:57	10/16/24 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*10/15/24 19:57*	*10/16/24 19:23*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/15/24 19:57*	*10/16/24 19:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2880**		49.7		mg/Kg			10/16/24 16:58	5

Client Sample ID: S-3 (3')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-11
Matrix: Solid

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		10/16/24 09:36	10/16/24 17:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*10/16/24 09:36*	*10/16/24 17:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/16/24 09:36*	*10/16/24 17:03*	*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			10/16/24 17:03	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			10/16/24 20:08	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	<49.9	U	49.9		mg/Kg		10/15/24 19:57	10/16/24 20:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/15/24 19:57	10/16/24 20:08	1

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (3')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:57	10/16/24 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*10/15/24 19:57*	*10/16/24 20:08*	*1*
o-Terphenyl	*91*		*70 - 130*	*10/15/24 19:57*	*10/16/24 20:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.5**		9.96		mg/Kg			10/16/24 17:04	1

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

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-12
Matrix: Solid

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		10/16/24 09:36	10/16/24 17:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 17:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 17:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 17:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 17:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/16/24 09:36*	*10/16/24 17:24*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*10/16/24 09:36*	*10/16/24 17:24*	*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			10/16/24 17:24	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			10/16/24 20:23	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		10/15/24 19:57	10/16/24 20:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 20:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*10/15/24 19:57*	*10/16/24 20:23*	*1*
o-Terphenyl	*86*		*70 - 130*	*10/15/24 19:57*	*10/16/24 20:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2180**		50.4		mg/Kg			10/17/24 15:02	5

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-49854-13
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 17:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/16/24 09:36*	*10/16/24 17:44*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*10/16/24 09:36*	*10/16/24 17:44*	*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			10/16/24 17:44	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			10/16/24 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 20:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 20:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*10/15/24 19:57*	*10/16/24 20:38*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/15/24 19:57*	*10/16/24 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2530**		49.5		mg/Kg			10/17/24 15:18	5

Client Sample ID: S-4 (2')

Lab Sample ID: 880-49854-14
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 18:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/16/24 09:36*	*10/16/24 18:05*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*10/16/24 09:36*	*10/16/24 18:05*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (2')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-14
Matrix: Solid

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			10/16/24 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/16/24 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	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 20:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 20:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*10/15/24 19:57*	*10/16/24 20:53*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/15/24 19:57*	*10/16/24 20:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2710**		49.6		mg/Kg			10/17/24 15:23	5

Client Sample ID: S-4 (3')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-15
Matrix: Solid

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		10/16/24 09:36	10/16/24 18:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 18:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/16/24 09:36*	*10/16/24 18:25*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/16/24 09:36*	*10/16/24 18:25*	*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			10/16/24 18:25	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			10/16/24 21:08	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	<49.9	U	49.9		mg/Kg		10/15/24 19:57	10/16/24 21:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/15/24 19:57	10/16/24 21:08	1

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (3')

Lab Sample ID: 880-49854-15
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/15/24 19:57	10/16/24 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*10/15/24 19:57*	*10/16/24 21:08*	*1*
o-Terphenyl	*91*		*70 - 130*	*10/15/24 19:57*	*10/16/24 21:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1250**		50.5		mg/Kg			10/17/24 15:29	5

Client Sample ID: S-4 (4')

Lab Sample ID: 880-49854-16
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 18:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 18:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 18:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 18:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 18:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/16/24 09:36*	*10/16/24 18:46*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*10/16/24 09:36*	*10/16/24 18:46*	*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			10/16/24 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/16/24 21:23	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		10/15/24 19:57	10/16/24 21:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 21:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*10/15/24 19:57*	*10/16/24 21:23*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/15/24 19:57*	*10/16/24 21:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.1**		9.98		mg/Kg			10/17/24 15:34	1

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-49854-17
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 19:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/16/24 09:36*	*10/16/24 19:06*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*10/16/24 09:36*	*10/16/24 19:06*	*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			10/16/24 19:06	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			10/16/24 21:37	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		10/15/24 19:57	10/16/24 21:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 21:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*10/15/24 19:57*	*10/16/24 21:37*	*1*
o-Terphenyl	*100*		*70 - 130*	*10/15/24 19:57*	*10/16/24 21:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3180**		50.3		mg/Kg			10/17/24 15:50	5

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-49854-18
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 19:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/16/24 09:36*	*10/16/24 19:27*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/16/24 09:36*	*10/16/24 19:27*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-49854-18
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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			10/16/24 19:27	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			10/16/24 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 21:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 21:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*10/15/24 19:57*	*10/16/24 21:52*	*1*
o-Terphenyl	*87*		*70 - 130*	*10/15/24 19:57*	*10/16/24 21:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		9.96		mg/Kg			10/17/24 15:56	1

Client Sample ID: S-5 (2')

Lab Sample ID: 880-49854-19
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:36	10/16/24 19:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 19:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/16/24 09:36*	*10/16/24 19:47*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*10/16/24 09:36*	*10/16/24 19:47*	*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			10/16/24 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/16/24 22:07	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	49.7		mg/Kg		10/15/24 19:57	10/16/24 22:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/15/24 19:57	10/16/24 22:07	1

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (2')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/15/24 19:57	10/16/24 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*10/15/24 19:57*	*10/16/24 22:07*	*1*
o-Terphenyl	*88*		*70 - 130*	*10/15/24 19:57*	*10/16/24 22:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.0**		9.92		mg/Kg			10/17/24 16:01	1

Client Sample ID: S-5 (3')

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-20
Matrix: Solid

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		10/16/24 09:36	10/16/24 20:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 20:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 20:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 20:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 20:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*10/16/24 09:36*	*10/16/24 20:08*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/16/24 09:36*	*10/16/24 20:08*	*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			10/16/24 20:08	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			10/16/24 22:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 22:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 22:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*10/15/24 19:57*	*10/16/24 22:36*	*1*
o-Terphenyl	*87*		*70 - 130*	*10/15/24 19:57*	*10/16/24 22:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			10/17/24 16:06	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
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)
880-49854-1	S-1 (0-1')	301 S1+	79
880-49854-1 MS	S-1 (0-1')	110	98
880-49854-1 MSD	S-1 (0-1')	103	101
880-49854-2	S-1 (1.5')	100	100
880-49854-3	S-1 (2')	122	108
880-49854-4	S-1 (3')	109	104
880-49854-5	S-2 (0-1')	116	104
880-49854-6	S-2 (1.5')	119	109
880-49854-7	S-2 (2')	111	109
880-49854-8	S-3 (0-1')	115	108
880-49854-9	S-3 (1.5')	107	106
880-49854-10	S-3 (2')	106	103
880-49854-11	S-3 (3')	87	100
880-49854-12	S-4 (0-1')	109	107
880-49854-13	S-4 (1.5')	109	106
880-49854-14	S-4 (2')	110	106
880-49854-15	S-4 (3')	115	108
880-49854-16	S-4 (4')	120	116
880-49854-17	S-5 (0-1')	120	113
880-49854-18	S-5 (1.5')	110	108
880-49854-19	S-5 (2')	116	112
880-49854-20	S-5 (3')	106	108
LCS 880-93445/1-A	Lab Control Sample	103	98
LCSD 880-93445/2-A	Lab Control Sample Dup	105	101
MB 880-93445/5-A	Method Blank	150 S1+	100

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)
880-49802-A-2-D MS	Matrix Spike	129	110
880-49802-A-2-E MSD	Matrix Spike Duplicate	99	85
880-49854-1	S-1 (0-1')	101	97
880-49854-2	S-1 (1.5')	97	94
880-49854-3	S-1 (2')	97	95
880-49854-4	S-1 (3')	101	99
880-49854-5	S-2 (0-1')	95	93
880-49854-6	S-2 (1.5')	96	91
880-49854-7	S-2 (2')	102	97
880-49854-8	S-3 (0-1')	94	92
880-49854-9	S-3 (1.5')	100	97
880-49854-10	S-3 (2')	82	90
880-49854-10 MS	S-3 (2')	101	96
880-49854-10 MSD	S-3 (2')	101	96

Surrogate Summary

Client: Carmona Resources Job ID: 880-49854-1
Project/Site: Dogie Draw Ender Wiggings 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)								
880-49854-11	S-3 (3')	82	91								
880-49854-12	S-4 (0-1')	80	86								
880-49854-13	S-4 (1.5')	84	90								
880-49854-14	S-4 (2')	81	90								
880-49854-15	S-4 (3')	82	91								
880-49854-16	S-4 (4')	82	90								
880-49854-17	S-5 (0-1')	91	100								
880-49854-18	S-5 (1.5')	80	87								
880-49854-19	S-5 (2')	81	88								
880-49854-20	S-5 (3')	81	87								
LCS 880-93419/2-A	Lab Control Sample	107	145 S1+								
LCS 880-93420/2-A	Lab Control Sample	113	107								
LCSD 880-93419/3-A	Lab Control Sample Dup	132 S1+	179 S1+								
LCSD 880-93420/3-A	Lab Control Sample Dup	111	105								
MB 880-93419/1-A	Method Blank	90	90								
MB 880-93420/1-A	Method Blank	69 S1-	78								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-93445/5-A
Matrix: Solid
Analysis Batch: 93435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/16/24 09:36	10/16/24 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/16/24 09:36	10/16/24 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*10/16/24 09:36*	*10/16/24 11:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/16/24 09:36*	*10/16/24 11:41*	*1*

Lab Sample ID: LCS 880-93445/1-A
Matrix: Solid
Analysis Batch: 93435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09869		mg/Kg		99	70 - 130
Toluene	0.100	0.1013		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2358		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-93445/2-A
Matrix: Solid
Analysis Batch: 93435

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	3	35
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2071		mg/Kg		104	70 - 130	13	35
o-Xylene	0.100	0.1165		mg/Kg		117	70 - 130	2	35

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

Lab Sample ID: 880-49854-1 MS
Matrix: Solid
Analysis Batch: 93435

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 93445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.09975		mg/Kg		100	70 - 130
Toluene	<0.00202	U	0.100	0.1028		mg/Kg		103	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49854-1 MS
Matrix: Solid
Analysis Batch: 93435

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 93445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00455		0.100	0.1000		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.0114		0.200	0.2144		mg/Kg		101	70 - 130
o-Xylene	0.00426		0.100	0.1195		mg/Kg		115	70 - 130

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

Lab Sample ID: 880-49854-1 MSD
Matrix: Solid
Analysis Batch: 93435

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 93445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08434		mg/Kg		84	70 - 130	17	35
Toluene	<0.00202	U	0.100	0.07871		mg/Kg		79	70 - 130	27	35
Ethylbenzene	0.00455		0.100	0.08903		mg/Kg		84	70 - 130	12	35
m-Xylene & p-Xylene	0.0114		0.200	0.1918		mg/Kg		90	70 - 130	11	35
o-Xylene	0.00426		0.100	0.1016		mg/Kg		97	70 - 130	16	35

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

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

Lab Sample ID: MB 880-93419/1-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93419

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		10/15/24 19:51	10/17/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*10/15/24 19:51*	*10/17/24 01:53*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/15/24 19:51*	*10/17/24 01:53*	*1*

Lab Sample ID: LCS 880-93419/2-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	924.2		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1181		mg/Kg		118	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-93419/2-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93419

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: LCSD 880-93419/3-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93419

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1135	*1	mg/Kg		114	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	1443	*+	mg/Kg		144	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	179	S1+	70 - 130

Lab Sample ID: 880-49802-A-2-D MS
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93419

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 *1	996	929.9		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F2	996	911.1		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-49802-A-2-E MSD
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 93419

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 *1	996	761.6		mg/Kg		76	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F2	996	703.8	F2	mg/Kg		71	70 - 130	26	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-93420/1-A
Matrix: Solid
Analysis Batch: 93443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93420

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		10/15/24 19:57	10/16/24 18:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 18:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 18:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*10/15/24 19:57*	*10/16/24 18:39*	*1*
o-Terphenyl	*78*		*70 - 130*	*10/15/24 19:57*	*10/16/24 18:39*	*1*

Lab Sample ID: LCS 880-93420/2-A
Matrix: Solid
Analysis Batch: 93443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	936.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	962.2		mg/Kg		96	70 - 130

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

Lab Sample ID: LCSD 880-93420/3-A
Matrix: Solid
Analysis Batch: 93443

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93420

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	923.8		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	934.1		mg/Kg		93	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 880-49854-10 MS
Matrix: Solid
Analysis Batch: 93443

Client Sample ID: S-3 (2')
Prep Type: Total/NA
Prep Batch: 93420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	737.3		mg/Kg		74	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	732.6		mg/Kg		74	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49854-10 MS
Matrix: Solid
Analysis Batch: 93443

Client Sample ID: S-3 (2')
Prep Type: Total/NA
Prep Batch: 93420

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-49854-10 MSD
Matrix: Solid
Analysis Batch: 93443

Client Sample ID: S-3 (2')
Prep Type: Total/NA
Prep Batch: 93420

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	717.3		mg/Kg		72	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	732.4		mg/Kg		74	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	96		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93459/1-A
Matrix: Solid
Analysis Batch: 93474

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			10/16/24 13:56	1

Lab Sample ID: LCS 880-93459/2-A
Matrix: Solid
Analysis Batch: 93474

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-93459/3-A
Matrix: Solid
Analysis Batch: 93474

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	246.0		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-49854-2 MS
Matrix: Solid
Analysis Batch: 93474

Client Sample ID: S-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5080	F1	2530	7925	F1	mg/Kg		113	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-49854-2 MSD
Matrix: Solid
Analysis Batch: 93474

Client Sample ID: S-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5080	F1	2530	7935	F1	mg/Kg		113	90 - 110	0	20

Lab Sample ID: MB 880-93460/1-A
Matrix: Solid
Analysis Batch: 93477

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			10/17/24 14:46	1

Lab Sample ID: LCS 880-93460/2-A
Matrix: Solid
Analysis Batch: 93477

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-93460/3-A
Matrix: Solid
Analysis Batch: 93477

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	251.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-49854-12 MS
Matrix: Solid
Analysis Batch: 93477

Client Sample ID: S-4 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2180		1260	3558		mg/Kg		109	90 - 110

Lab Sample ID: 880-49854-12 MSD
Matrix: Solid
Analysis Batch: 93477

Client Sample ID: S-4 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2180		1260	3559		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 93435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Total/NA	Solid	8021B	93445
880-49854-2	S-1 (1.5')	Total/NA	Solid	8021B	93445
880-49854-3	S-1 (2')	Total/NA	Solid	8021B	93445
880-49854-4	S-1 (3')	Total/NA	Solid	8021B	93445
880-49854-5	S-2 (0-1')	Total/NA	Solid	8021B	93445
880-49854-6	S-2 (1.5')	Total/NA	Solid	8021B	93445
880-49854-7	S-2 (2')	Total/NA	Solid	8021B	93445
880-49854-8	S-3 (0-1')	Total/NA	Solid	8021B	93445
880-49854-9	S-3 (1.5')	Total/NA	Solid	8021B	93445
880-49854-10	S-3 (2')	Total/NA	Solid	8021B	93445
880-49854-11	S-3 (3')	Total/NA	Solid	8021B	93445
880-49854-12	S-4 (0-1')	Total/NA	Solid	8021B	93445
880-49854-13	S-4 (1.5')	Total/NA	Solid	8021B	93445
880-49854-14	S-4 (2')	Total/NA	Solid	8021B	93445
880-49854-15	S-4 (3')	Total/NA	Solid	8021B	93445
880-49854-16	S-4 (4')	Total/NA	Solid	8021B	93445
880-49854-17	S-5 (0-1')	Total/NA	Solid	8021B	93445
880-49854-18	S-5 (1.5')	Total/NA	Solid	8021B	93445
880-49854-19	S-5 (2')	Total/NA	Solid	8021B	93445
880-49854-20	S-5 (3')	Total/NA	Solid	8021B	93445
MB 880-93445/5-A	Method Blank	Total/NA	Solid	8021B	93445
LCS 880-93445/1-A	Lab Control Sample	Total/NA	Solid	8021B	93445
LCSD 880-93445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93445
880-49854-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	93445
880-49854-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	93445

Prep Batch: 93445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Total/NA	Solid	5035	
880-49854-2	S-1 (1.5')	Total/NA	Solid	5035	
880-49854-3	S-1 (2')	Total/NA	Solid	5035	
880-49854-4	S-1 (3')	Total/NA	Solid	5035	
880-49854-5	S-2 (0-1')	Total/NA	Solid	5035	
880-49854-6	S-2 (1.5')	Total/NA	Solid	5035	
880-49854-7	S-2 (2')	Total/NA	Solid	5035	
880-49854-8	S-3 (0-1')	Total/NA	Solid	5035	
880-49854-9	S-3 (1.5')	Total/NA	Solid	5035	
880-49854-10	S-3 (2')	Total/NA	Solid	5035	
880-49854-11	S-3 (3')	Total/NA	Solid	5035	
880-49854-12	S-4 (0-1')	Total/NA	Solid	5035	
880-49854-13	S-4 (1.5')	Total/NA	Solid	5035	
880-49854-14	S-4 (2')	Total/NA	Solid	5035	
880-49854-15	S-4 (3')	Total/NA	Solid	5035	
880-49854-16	S-4 (4')	Total/NA	Solid	5035	
880-49854-17	S-5 (0-1')	Total/NA	Solid	5035	
880-49854-18	S-5 (1.5')	Total/NA	Solid	5035	
880-49854-19	S-5 (2')	Total/NA	Solid	5035	
880-49854-20	S-5 (3')	Total/NA	Solid	5035	
MB 880-93445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 93445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-49854-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 93552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-49854-4	S-1 (3')	Total/NA	Solid	Total BTEX	
880-49854-5	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-6	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-7	S-2 (2')	Total/NA	Solid	Total BTEX	
880-49854-8	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-9	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-10	S-3 (2')	Total/NA	Solid	Total BTEX	
880-49854-11	S-3 (3')	Total/NA	Solid	Total BTEX	
880-49854-12	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-13	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-14	S-4 (2')	Total/NA	Solid	Total BTEX	
880-49854-15	S-4 (3')	Total/NA	Solid	Total BTEX	
880-49854-16	S-4 (4')	Total/NA	Solid	Total BTEX	
880-49854-17	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-18	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-19	S-5 (2')	Total/NA	Solid	Total BTEX	
880-49854-20	S-5 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 93419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-49854-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-49854-4	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-49854-5	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-6	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-49854-7	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-49854-8	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-9	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 93420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-10	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-49854-11	S-3 (3')	Total/NA	Solid	8015NM Prep	
880-49854-12	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-13	S-4 (1.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 93420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-14	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-49854-15	S-4 (3')	Total/NA	Solid	8015NM Prep	
880-49854-16	S-4 (4')	Total/NA	Solid	8015NM Prep	
880-49854-17	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-18	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-49854-19	S-5 (2')	Total/NA	Solid	8015NM Prep	
880-49854-20	S-5 (3')	Total/NA	Solid	8015NM Prep	
MB 880-93420/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93420/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93420/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49854-10 MS	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-49854-10 MSD	S-3 (2')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Total/NA	Solid	8015B NM	93419
880-49854-2	S-1 (1.5')	Total/NA	Solid	8015B NM	93419
880-49854-3	S-1 (2')	Total/NA	Solid	8015B NM	93419
880-49854-4	S-1 (3')	Total/NA	Solid	8015B NM	93419
880-49854-5	S-2 (0-1')	Total/NA	Solid	8015B NM	93419
880-49854-6	S-2 (1.5')	Total/NA	Solid	8015B NM	93419
880-49854-7	S-2 (2')	Total/NA	Solid	8015B NM	93419
880-49854-8	S-3 (0-1')	Total/NA	Solid	8015B NM	93419
880-49854-9	S-3 (1.5')	Total/NA	Solid	8015B NM	93419
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015B NM	93419
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93419
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93419
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	93419
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	93419

Analysis Batch: 93443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-10	S-3 (2')	Total/NA	Solid	8015B NM	93420
880-49854-11	S-3 (3')	Total/NA	Solid	8015B NM	93420
880-49854-12	S-4 (0-1')	Total/NA	Solid	8015B NM	93420
880-49854-13	S-4 (1.5')	Total/NA	Solid	8015B NM	93420
880-49854-14	S-4 (2')	Total/NA	Solid	8015B NM	93420
880-49854-15	S-4 (3')	Total/NA	Solid	8015B NM	93420
880-49854-16	S-4 (4')	Total/NA	Solid	8015B NM	93420
880-49854-17	S-5 (0-1')	Total/NA	Solid	8015B NM	93420
880-49854-18	S-5 (1.5')	Total/NA	Solid	8015B NM	93420
880-49854-19	S-5 (2')	Total/NA	Solid	8015B NM	93420
880-49854-20	S-5 (3')	Total/NA	Solid	8015B NM	93420
MB 880-93420/1-A	Method Blank	Total/NA	Solid	8015B NM	93420
LCS 880-93420/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93420
LCSD 880-93420/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93420
880-49854-10 MS	S-3 (2')	Total/NA	Solid	8015B NM	93420
880-49854-10 MSD	S-3 (2')	Total/NA	Solid	8015B NM	93420

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 93564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-49854-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-49854-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-49854-4	S-1 (3')	Total/NA	Solid	8015 NM	
880-49854-5	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-49854-6	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-49854-7	S-2 (2')	Total/NA	Solid	8015 NM	
880-49854-8	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-49854-9	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-49854-10	S-3 (2')	Total/NA	Solid	8015 NM	
880-49854-11	S-3 (3')	Total/NA	Solid	8015 NM	
880-49854-12	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-49854-13	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-49854-14	S-4 (2')	Total/NA	Solid	8015 NM	
880-49854-15	S-4 (3')	Total/NA	Solid	8015 NM	
880-49854-16	S-4 (4')	Total/NA	Solid	8015 NM	
880-49854-17	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-49854-18	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-49854-19	S-5 (2')	Total/NA	Solid	8015 NM	
880-49854-20	S-5 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 93459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-49854-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-49854-3	S-1 (2')	Soluble	Solid	DI Leach	
880-49854-4	S-1 (3')	Soluble	Solid	DI Leach	
880-49854-5	S-2 (0-1')	Soluble	Solid	DI Leach	
880-49854-6	S-2 (1.5')	Soluble	Solid	DI Leach	
880-49854-7	S-2 (2')	Soluble	Solid	DI Leach	
880-49854-8	S-3 (0-1')	Soluble	Solid	DI Leach	
880-49854-9	S-3 (1.5')	Soluble	Solid	DI Leach	
880-49854-10	S-3 (2')	Soluble	Solid	DI Leach	
880-49854-11	S-3 (3')	Soluble	Solid	DI Leach	
MB 880-93459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49854-2 MS	S-1 (1.5')	Soluble	Solid	DI Leach	
880-49854-2 MSD	S-1 (1.5')	Soluble	Solid	DI Leach	

Leach Batch: 93460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-12	S-4 (0-1')	Soluble	Solid	DI Leach	
880-49854-13	S-4 (1.5')	Soluble	Solid	DI Leach	
880-49854-14	S-4 (2')	Soluble	Solid	DI Leach	
880-49854-15	S-4 (3')	Soluble	Solid	DI Leach	
880-49854-16	S-4 (4')	Soluble	Solid	DI Leach	
880-49854-17	S-5 (0-1')	Soluble	Solid	DI Leach	
880-49854-18	S-5 (1.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 93460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-19	S-5 (2')	Soluble	Solid	DI Leach	
880-49854-20	S-5 (3')	Soluble	Solid	DI Leach	
MB 880-93460/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93460/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93460/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49854-12 MS	S-4 (0-1')	Soluble	Solid	DI Leach	
880-49854-12 MSD	S-4 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 93474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Soluble	Solid	300.0	93459
880-49854-2	S-1 (1.5')	Soluble	Solid	300.0	93459
880-49854-3	S-1 (2')	Soluble	Solid	300.0	93459
880-49854-4	S-1 (3')	Soluble	Solid	300.0	93459
880-49854-5	S-2 (0-1')	Soluble	Solid	300.0	93459
880-49854-6	S-2 (1.5')	Soluble	Solid	300.0	93459
880-49854-7	S-2 (2')	Soluble	Solid	300.0	93459
880-49854-8	S-3 (0-1')	Soluble	Solid	300.0	93459
880-49854-9	S-3 (1.5')	Soluble	Solid	300.0	93459
880-49854-10	S-3 (2')	Soluble	Solid	300.0	93459
880-49854-11	S-3 (3')	Soluble	Solid	300.0	93459
MB 880-93459/1-A	Method Blank	Soluble	Solid	300.0	93459
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	300.0	93459
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93459
880-49854-2 MS	S-1 (1.5')	Soluble	Solid	300.0	93459
880-49854-2 MSD	S-1 (1.5')	Soluble	Solid	300.0	93459

Analysis Batch: 93477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-12	S-4 (0-1')	Soluble	Solid	300.0	93460
880-49854-13	S-4 (1.5')	Soluble	Solid	300.0	93460
880-49854-14	S-4 (2')	Soluble	Solid	300.0	93460
880-49854-15	S-4 (3')	Soluble	Solid	300.0	93460
880-49854-16	S-4 (4')	Soluble	Solid	300.0	93460
880-49854-17	S-5 (0-1')	Soluble	Solid	300.0	93460
880-49854-18	S-5 (1.5')	Soluble	Solid	300.0	93460
880-49854-19	S-5 (2')	Soluble	Solid	300.0	93460
880-49854-20	S-5 (3')	Soluble	Solid	300.0	93460
MB 880-93460/1-A	Method Blank	Soluble	Solid	300.0	93460
LCS 880-93460/2-A	Lab Control Sample	Soluble	Solid	300.0	93460
LCSD 880-93460/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93460
880-49854-12 MS	S-4 (0-1')	Soluble	Solid	300.0	93460
880-49854-12 MSD	S-4 (0-1')	Soluble	Solid	300.0	93460

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1')
Lab Sample ID: 880-49854-1

Date Collected: 10/15/24 00:00
Matrix: Solid
Date Received: 10/15/24 16:50

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	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 12:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 06:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 06:18	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 15:36	CH	EET MID

Client Sample ID: S-1 (1.5')
Lab Sample ID: 880-49854-2

Date Collected: 10/15/24 00:00
Matrix: Solid
Date Received: 10/15/24 16:50

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	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 12:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 06:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 06:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	93474	10/16/24 15:43	CH	EET MID

Client Sample ID: S-1 (2')
Lab Sample ID: 880-49854-3

Date Collected: 10/15/24 00:00
Matrix: Solid
Date Received: 10/15/24 16:50

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	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 12:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 06:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 06:47	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 16:02	CH	EET MID

Client Sample ID: S-1 (3')
Lab Sample ID: 880-49854-4

Date Collected: 10/15/24 00:00
Matrix: Solid
Date Received: 10/15/24 16:50

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	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 13:11	AJ	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (3')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-4
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			93564	10/17/24 07:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 16:08	CH	EET MID

Client Sample ID: S-2 (0-1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-5
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			5.03 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 13:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 16:27	CH	EET MID

Client Sample ID: S-2 (1.5')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-6
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			5.01 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 13:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 16:33	CH	EET MID

Client Sample ID: S-2 (2')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-7
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			5.04 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 14:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:45	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 16:39	CH	EET MID

Client Sample ID: S-3 (0-1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 14:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:59	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 16:46	CH	EET MID

Client Sample ID: S-3 (1.5')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 14:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 08:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 08:15	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 16:52	CH	EET MID

Client Sample ID: S-3 (2')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 15:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 19:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 19:23	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 16:58	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (3')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-11
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	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 17:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 17:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 20:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 20:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 17:04	CH	EET MID

Client Sample ID: S-4 (0-1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-12
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			5.01 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 17:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 17:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 20:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 20:23	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:02	CH	EET MID

Client Sample ID: S-4 (1.5')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-13
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			4.98 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 17:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 20:38	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:18	CH	EET MID

Client Sample ID: S-4 (2')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-14
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			5.02 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 18:05	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (2')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-14
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			93564	10/16/24 20:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 20:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:23	CH	EET MID

Client Sample ID: S-4 (3')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 18:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 21:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 21:08	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:29	CH	EET MID

Client Sample ID: S-4 (4')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-16
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			5.01 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 18:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 21:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 21:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93477	10/17/24 15:34	CH	EET MID

Client Sample ID: S-5 (0-1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-17
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			4.97 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 19:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 21:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 21:37	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (0-1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-17
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			4.97 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:50	CH	EET MID

Client Sample ID: S-5 (1.5')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-18
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			4.99 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 19:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 21:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 21:52	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93477	10/17/24 15:56	CH	EET MID

Client Sample ID: S-5 (2')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 19:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 19:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 22:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 22:07	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93477	10/17/24 16:01	CH	EET MID

Client Sample ID: S-5 (3')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 20:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 22:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 22:36	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93477	10/17/24 16:06	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-49854-1
Project/Site: Dogie Draw Ender Wiggings
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: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
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: Dogie Draw Ender Wiggings

Job ID: 880-49854-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49854-1	S-1 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-2	S-1 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-3	S-1 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-4	S-1 (3')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-5	S-2 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-6	S-2 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-7	S-2 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-8	S-3 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-9	S-3 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-10	S-3 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-11	S-3 (3')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-12	S-4 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-13	S-4 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-14	S-4 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-15	S-4 (3')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-16	S-4 (4')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-17	S-5 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-18	S-5 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-19	S-5 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-20	S-5 (3')	Solid	10/15/24 00:00	10/15/24 16:50

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Chain of Custody

Work

880-49854 Chain of Custody

10/21/2024

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Dogie Draw Ender Wiggins	Turn Around	
Project Number:	2548	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date:	5 day
Sampler's Name:	CRM & DD		
Work Order	200223681		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
S-1 (0-1')	10/15/2024		X		G	1	X	X	X		
S-1 (1.5')	10/15/2024		X		G	1	X	X	X		
S-1 (2')	10/15/2024		X		G	1	X	X	X		
S-1 (3')	10/15/2024		X		G	1	X	X	X		
S-2 (0-1')	10/15/2024		X		G	1	X	X	X		
S-2 (1.5')	10/15/2024		X		G	1	X	X	X		
S-2 (2')	10/15/2024		X		G	1	X	X	X		
S-3 (0-1')	10/15/2024		X		G	1	X	X	X		
S-3 (1.5')	10/15/2024		X		G	1	X	X	X		
S-3 (2')	10/15/2024		X		G	1	X	X	X		

Pres. Code — Parameters

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/15/24 1450

Received by OCD: 2/28/2025 10:57:57 AM

Released to Imaging: 4/9/2025 10:23:24 AM

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Chain of Custody

Work Order No: 854

10/21/2024

Page 2 of 2

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Dogie Draw Ender Wiggins	Turn Around	
Project Number:	2548	☑ Routine	☐ Rush
Project Location	Lea County, New Mexico	Due Date:	5 day
Sampler's Name:	CRM & DD		
Work Order	200223681		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
S-3 (3')	10/15/2024		X		G	1		X	X	X		
S-4 (0-1')	10/15/2024		X		G	1		X	X	X		
S-4 (1.5')	10/15/2024		X		G	1		X	X	X		
S-4 (2')	10/15/2024		X		G	1		X	X	X		
S-4 (3')	10/15/2024		X		G	1		X	X	X		
S-4 (4')	10/15/2024		X		G	1		X	X	X		
S-5 (0-1')	10/15/2024		X		G	1		X	X	X		
S-5 (1.5')	10/15/2024		X		G	1		X	X	X		
S-5 (2')	10/15/2024		X		G	1					X	
S-5 (3')	10/15/2024		X		G	1					X	

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O

Cool: Cool MeOH: Me

HCL: HC HNO_3: HN

H_2S0_4: H_2 NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/15/24 1000

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Received by OCD: 2/28/2025 10:57:57 AM

Released to Imaging: 4/9/2025 10:23:24 AM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-49854-1
SDG Number: Lea County, New Mexico

Login Number: 49854
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/17/2024 1:51:53 PM

JOB DESCRIPTION

Dogie Draw Ender Wiggings
Lea County, New Mexico

JOB NUMBER

880-49853-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/9/2025 10:25:24 AM

my EOL

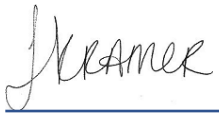
Eurofins Midland

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
10/17/2024 1:51:53 PM

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

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Laboratory Job ID: 880-49853-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

Job ID: 880-49853-1 Eurofins Midland

Job Narrative
880-49853-1

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 10/15/2024 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0.1') (880-49853-1), H-2 (0.1') (880-49853-2), H-3 (0.1') (880-49853-3), H-4 (0.1') (880-49853-4), H-5 (0.1') (880-49853-5), H-6 (0.1') (880-49853-6), H-7 (0.1') (880-49853-7) and H-8 (0.1') (880-49853-8).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-93442 and analytical batch 880-93436 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-93419/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-93419 and analytical batch 880-93440 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-93419/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-93419 and analytical batch 880-93440 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-93419 and analytical batch 880-93440 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-1 (0.1')

Lab Sample ID: 880-49853-1
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:34	10/16/24 12:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:34	10/16/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*10/16/24 09:34*	*10/16/24 12:36*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/16/24 09:34*	*10/16/24 12:36*	*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			10/16/24 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/24 04:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		10/15/24 19:51	10/17/24 04:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/15/24 19:51	10/17/24 04:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/15/24 19:51*	*10/17/24 04:06*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/15/24 19:51*	*10/17/24 04:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			10/16/24 14:33	1

Client Sample ID: H-2 (0.1')

Lab Sample ID: 880-49853-2
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:34	10/16/24 12:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*10/16/24 09:34*	*10/16/24 12:57*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/16/24 09:34*	*10/16/24 12:57*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-2 (0.1')

Lab Sample ID: 880-49853-2
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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			10/16/24 12:57	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			10/17/24 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		10/15/24 19:51	10/17/24 04:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/15/24 19:51	10/17/24 04:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:51	10/17/24 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*10/15/24 19:51*	*10/17/24 04:21*	*1*
o-Terphenyl	*98*		*70 - 130*	*10/15/24 19:51*	*10/17/24 04:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			10/16/24 14:40	1

Client Sample ID: H-3 (0.1')

Lab Sample ID: 880-49853-3
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:34	10/16/24 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:34	10/16/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*10/16/24 09:34*	*10/16/24 13:17*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/16/24 09:34*	*10/16/24 13:17*	*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			10/16/24 13:17	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			10/17/24 04:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		10/15/24 19:51	10/17/24 04:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 04:35	1

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-3 (0.1')

Lab Sample ID: 880-49853-3
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/15/24 19:51	10/17/24 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*10/15/24 19:51*	*10/17/24 04:35*	*1*
o-Terphenyl	*92*		*70 - 130*	*10/15/24 19:51*	*10/17/24 04:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			10/16/24 14:46	1

Client Sample ID: H-4 (0.1')

Lab Sample ID: 880-49853-4
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:34	10/16/24 13:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:34	10/16/24 13:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:34	10/16/24 13:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/16/24 09:34	10/16/24 13:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:34	10/16/24 13:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/16/24 09:34	10/16/24 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/16/24 09:34*	*10/16/24 13:38*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/16/24 09:34*	*10/16/24 13:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/16/24 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/17/24 04:50	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		10/15/24 19:51	10/17/24 04:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 04:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:51	10/17/24 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*10/15/24 19:51*	*10/17/24 04:50*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/15/24 19:51*	*10/17/24 04:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			10/16/24 14:52	1

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-5 (0.1')

Lab Sample ID: 880-49853-5
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:34	10/16/24 13:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:34	10/16/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*10/16/24 09:34*	*10/16/24 13:58*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/16/24 09:34*	*10/16/24 13:58*	*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			10/16/24 13:58	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			10/17/24 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		10/15/24 19:51	10/17/24 05:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/15/24 19:51	10/17/24 05:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*10/15/24 19:51*	*10/17/24 05:05*	*1*
o-Terphenyl	*101*		*70 - 130*	*10/15/24 19:51*	*10/17/24 05:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			10/16/24 15:11	1

Client Sample ID: H-6 (0.1')

Lab Sample ID: 880-49853-6
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:34	10/16/24 14:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:34	10/16/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/16/24 09:34*	*10/16/24 14:19*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/16/24 09:34*	*10/16/24 14:19*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-6 (0.1')

Lab Sample ID: 880-49853-6
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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			10/16/24 14:19	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			10/17/24 05:19	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	<49.8	U *1	49.8		mg/Kg		10/15/24 19:51	10/17/24 05:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 05:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:51	10/17/24 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*10/15/24 19:51*	*10/17/24 05:19*	*1*
o-Terphenyl	*98*		*70 - 130*	*10/15/24 19:51*	*10/17/24 05:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			10/16/24 15:18	1

Client Sample ID: H-7 (0.1')

Lab Sample ID: 880-49853-7
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:34	10/16/24 14:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/16/24 09:34*	*10/16/24 14:39*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/16/24 09:34*	*10/16/24 14:39*	*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			10/16/24 14:39	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			10/17/24 05:34	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	<49.8	U *1	49.8		mg/Kg		10/15/24 19:51	10/17/24 05:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 05:34	1

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-7 (0.1')

Lab Sample ID: 880-49853-7
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/15/24 19:51	10/17/24 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*10/15/24 19:51*	*10/17/24 05:34*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/15/24 19:51*	*10/17/24 05:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			10/16/24 15:24	1

Client Sample ID: H-8 (0.1')

Lab Sample ID: 880-49853-8
Matrix: Solid
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

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		10/16/24 09:34	10/16/24 16:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*10/16/24 09:34*	*10/16/24 16:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/16/24 09:34*	*10/16/24 16:04*	*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			10/16/24 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/17/24 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		10/15/24 19:51	10/17/24 06:03	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		10/15/24 19:51	10/17/24 06:03	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/15/24 19:51	10/17/24 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*10/15/24 19:51*	*10/17/24 06:03*	*1*
o-Terphenyl	*79*		*70 - 130*	*10/15/24 19:51*	*10/17/24 06:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			10/16/24 15:30	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49853-1	H-1 (0.1')	88	101
880-49853-2	H-2 (0.1')	92	102
880-49853-3	H-3 (0.1')	87	102
880-49853-4	H-4 (0.1')	89	102
880-49853-5	H-5 (0.1')	91	102
880-49853-6	H-6 (0.1')	90	101
880-49853-7	H-7 (0.1')	89	102
880-49853-8	H-8 (0.1')	87	98
880-49855-A-1-B MS	Matrix Spike	107	95
880-49855-A-1-C MSD	Matrix Spike Duplicate	82	98
LCS 880-93442/1-A	Lab Control Sample	114	113
LCSD 880-93442/2-A	Lab Control Sample Dup	119	113
MB 880-93442/5-A	Method Blank	81	100

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49802-A-2-D MS	Matrix Spike	129	110
880-49802-A-2-E MSD	Matrix Spike Duplicate	99	85
880-49853-1	H-1 (0.1')	100	95
880-49853-2	H-2 (0.1')	103	98
880-49853-3	H-3 (0.1')	96	92
880-49853-4	H-4 (0.1')	95	90
880-49853-5	H-5 (0.1')	104	101
880-49853-6	H-6 (0.1')	103	98
880-49853-7	H-7 (0.1')	98	95
880-49853-8	H-8 (0.1')	82	79
LCS 880-93419/2-A	Lab Control Sample	107	145 S1+
LCSD 880-93419/3-A	Lab Control Sample Dup	132 S1+	179 S1+
MB 880-93419/1-A	Method Blank	90	90

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-93442/5-A
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/16/24 09:34	10/16/24 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/16/24 09:34*	*10/16/24 11:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/16/24 09:34*	*10/16/24 11:13*	*1*

Lab Sample ID: LCS 880-93442/1-A
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93442

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1018		mg/Kg		102	70 - 130		
Toluene			0.100	0.08570		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.1151		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene			0.200	0.2197		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1081		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-93442/2-A
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93442

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1081		mg/Kg		108	70 - 130	6	35
Toluene			0.100	0.09147		mg/Kg		91	70 - 130	7	35
Ethylbenzene			0.100	0.1279		mg/Kg		128	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.2392		mg/Kg		120	70 - 130	9	35
o-Xylene			0.100	0.1166		mg/Kg		117	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-49855-A-1-B MS
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F1	0.100	0.06446	F1	mg/Kg		64	70 - 130		
Toluene	<0.00202	U	0.100	0.07115		mg/Kg		71	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49855-A-1-B MS
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.08183		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1533		mg/Kg		77	70 - 130
o-Xylene	<0.00202	U	0.100	0.07623		mg/Kg		76	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-49855-A-1-C MSD
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 93442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.08668		mg/Kg		87	70 - 130	29	35
Toluene	<0.00202	U	0.100	0.08513		mg/Kg		85	70 - 130	18	35
Ethylbenzene	<0.00202	U	0.100	0.08674		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1682		mg/Kg		84	70 - 130	9	35
o-Xylene	<0.00202	U	0.100	0.08131		mg/Kg		81	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-93419/1-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93419

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		10/15/24 19:51	10/17/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*10/15/24 19:51*	*10/17/24 01:53*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/15/24 19:51*	*10/17/24 01:53*	*1*

Lab Sample ID: LCS 880-93419/2-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	924.2		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1181		mg/Kg		118	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-93419/2-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93419

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: LCSD 880-93419/3-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93419

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1135	*1	mg/Kg		114	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	1443	*+	mg/Kg		144	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	179	S1+	70 - 130

Lab Sample ID: 880-49802-A-2-D MS
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93419

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 *1	996	929.9		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F2	996	911.1		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-49802-A-2-E MSD
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 93419

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 *1	996	761.6		mg/Kg		76	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F2	996	703.8	F2	mg/Kg		71	70 - 130	26	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93459/1-A
Matrix: Solid
Analysis Batch: 93474

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			10/16/24 13:56	1

Lab Sample ID: LCS 880-93459/2-A
Matrix: Solid
Analysis Batch: 93474

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.8		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-93459/3-A
Matrix: Solid
Analysis Batch: 93474

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	246.0		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-49852-A-1-D MS
Matrix: Solid
Analysis Batch: 93474

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	22.8		250	272.2		mg/Kg		100	90 - 110		

Lab Sample ID: 880-49852-A-1-E MSD
Matrix: Solid
Analysis Batch: 93474

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	22.8		250	272.4		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 93436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	8021B	93442
880-49853-2	H-2 (0.1')	Total/NA	Solid	8021B	93442
880-49853-3	H-3 (0.1')	Total/NA	Solid	8021B	93442
880-49853-4	H-4 (0.1')	Total/NA	Solid	8021B	93442
880-49853-5	H-5 (0.1')	Total/NA	Solid	8021B	93442
880-49853-6	H-6 (0.1')	Total/NA	Solid	8021B	93442
880-49853-7	H-7 (0.1')	Total/NA	Solid	8021B	93442
880-49853-8	H-8 (0.1')	Total/NA	Solid	8021B	93442
MB 880-93442/5-A	Method Blank	Total/NA	Solid	8021B	93442
LCS 880-93442/1-A	Lab Control Sample	Total/NA	Solid	8021B	93442
LCSD 880-93442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93442
880-49855-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	93442
880-49855-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	93442

Prep Batch: 93442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	5035	
880-49853-2	H-2 (0.1')	Total/NA	Solid	5035	
880-49853-3	H-3 (0.1')	Total/NA	Solid	5035	
880-49853-4	H-4 (0.1')	Total/NA	Solid	5035	
880-49853-5	H-5 (0.1')	Total/NA	Solid	5035	
880-49853-6	H-6 (0.1')	Total/NA	Solid	5035	
880-49853-7	H-7 (0.1')	Total/NA	Solid	5035	
880-49853-8	H-8 (0.1')	Total/NA	Solid	5035	
MB 880-93442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49855-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-49855-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 93544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-2	H-2 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-3	H-3 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-4	H-4 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-5	H-5 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-6	H-6 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-7	H-7 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-8	H-8 (0.1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 93419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-2	H-2 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-3	H-3 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-4	H-4 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-5	H-5 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-6	H-6 (0.1')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 93419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-7	H-7 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-8	H-8 (0.1')	Total/NA	Solid	8015NM Prep	
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-2	H-2 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-3	H-3 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-4	H-4 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-5	H-5 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-6	H-6 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-7	H-7 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-8	H-8 (0.1')	Total/NA	Solid	8015B NM	93419
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015B NM	93419
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93419
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93419
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	93419
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	93419

Analysis Batch: 93563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	8015 NM	
880-49853-2	H-2 (0.1')	Total/NA	Solid	8015 NM	
880-49853-3	H-3 (0.1')	Total/NA	Solid	8015 NM	
880-49853-4	H-4 (0.1')	Total/NA	Solid	8015 NM	
880-49853-5	H-5 (0.1')	Total/NA	Solid	8015 NM	
880-49853-6	H-6 (0.1')	Total/NA	Solid	8015 NM	
880-49853-7	H-7 (0.1')	Total/NA	Solid	8015 NM	
880-49853-8	H-8 (0.1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 93459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Soluble	Solid	DI Leach	
880-49853-2	H-2 (0.1')	Soluble	Solid	DI Leach	
880-49853-3	H-3 (0.1')	Soluble	Solid	DI Leach	
880-49853-4	H-4 (0.1')	Soluble	Solid	DI Leach	
880-49853-5	H-5 (0.1')	Soluble	Solid	DI Leach	
880-49853-6	H-6 (0.1')	Soluble	Solid	DI Leach	
880-49853-7	H-7 (0.1')	Soluble	Solid	DI Leach	
880-49853-8	H-8 (0.1')	Soluble	Solid	DI Leach	
MB 880-93459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49852-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 93459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 93474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Soluble	Solid	300.0	93459
880-49853-2	H-2 (0.1')	Soluble	Solid	300.0	93459
880-49853-3	H-3 (0.1')	Soluble	Solid	300.0	93459
880-49853-4	H-4 (0.1')	Soluble	Solid	300.0	93459
880-49853-5	H-5 (0.1')	Soluble	Solid	300.0	93459
880-49853-6	H-6 (0.1')	Soluble	Solid	300.0	93459
880-49853-7	H-7 (0.1')	Soluble	Solid	300.0	93459
880-49853-8	H-8 (0.1')	Soluble	Solid	300.0	93459
MB 880-93459/1-A	Method Blank	Soluble	Solid	300.0	93459
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	300.0	93459
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93459
880-49852-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	93459
880-49852-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	93459

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-1 (0.1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-1
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			4.99 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 12:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 04:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 04:06	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 14:33	CH	EET MID

Client Sample ID: H-2 (0.1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-2
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	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 12:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 04:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 04:21	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 14:40	CH	EET MID

Client Sample ID: H-3 (0.1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-3
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	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 13:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 04:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 04:35	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 14:46	CH	EET MID

Client Sample ID: H-4 (0.1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 13:38	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0.1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-4
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			93563	10/17/24 04:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 04:50	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 14:52	CH	EET MID

Client Sample ID: H-5 (0.1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-5
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	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 13:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 05:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 05:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 15:11	CH	EET MID

Client Sample ID: H-6 (0.1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-6
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			4.99 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 05:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 05:19	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 15:18	CH	EET MID

Client Sample ID: H-7 (0.1')
Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-7
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	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 14:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 05:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 05:34	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Client Sample ID: H-7 (0.1')

Lab Sample ID: 880-49853-7

Date Collected: 10/15/24 00:00
Matrix: Solid
Date Received: 10/15/24 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 15:24	CH	EET MID

Client Sample ID: H-8 (0.1')

Lab Sample ID: 880-49853-8

Date Collected: 10/15/24 00:00
Matrix: Solid
Date Received: 10/15/24 16:50

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	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 16:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 06:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 06:03	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 15:30	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: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
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: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
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: Dogie Draw Ender Wiggings

Job ID: 880-49853-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49853-1	H-1 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-2	H-2 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-3	H-3 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-4	H-4 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-5	H-5 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-6	H-6 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-7	H-7 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-8	H-8 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50

Released to Imaging: 4/9/2025 10:23:24 AM
Received by OCD: 2/28/2025 10:57:57 AM

Chain of Custody

880-49853 Chain of Custody

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

Project Name:	Dogie Draw Ender Wiggins	Turn Around	
Project Number:	2548	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date:	5 day
Sampler's Name:	CRM & DD		
Work Order	200223681		

SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No	
Received Intact:	Yes No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.8
Total Containers:		Corrected Temperature:	5.7

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold
H-1 (0-1')	10/15/2024		X		G	1			X	X	X	
H-2 (0-1')	10/15/2024		X		G	1			X	X	X	
H-3 (0-1')	10/15/2024		X		G	1			X	X	X	
H-4 (0-1')	10/15/2024		X		G	1			X	X	X	
H-5 (0-1')	10/15/2024		X		G	1			X	X	X	
H-6 (0-1')	10/15/2024		X		G	1			X	X	X	
H-7 (0-1')	10/15/2024		X		G	1			X	X	X	
H-8 (0-1')	10/15/2024		X		G	1			X	X	X	

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/15/24 1655

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-49853-1
SDG Number: Lea County, New Mexico

Login Number: 49853
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/17/2024 1:50:51 PM

JOB DESCRIPTION

Dogie Draw Ender Wiggings
Lea County, New Mexico

JOB NUMBER

880-49852-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/3/2025 10:25:24 AM

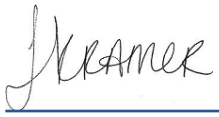
Eurofins Midland

Job Notes

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

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

Authorization



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Authorized for release by
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Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Laboratory Job ID: 880-49852-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

Job ID: 880-49852-1 Eurofins Midland

Job Narrative
880-49852-1

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 10/15/2024 4:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: Background (880-49852-1).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-93442 and analytical batch 880-93436 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-93419/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-93419 and analytical batch 880-93440 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-93419/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-93419 and analytical batch 880-93440 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-93419 and analytical batch 880-93440 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

Client Sample ID: Background

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49852-1

Matrix: Solid

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		10/16/24 09:34	10/16/24 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:34	10/16/24 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:34	10/16/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/16/24 09:34*	*10/16/24 12:16*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/16/24 09:34*	*10/16/24 12:16*	*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			10/16/24 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/17/24 03:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		10/15/24 19:51	10/17/24 03:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/15/24 19:51	10/17/24 03:52	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/15/24 19:51	10/17/24 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/15/24 19:51*	*10/17/24 03:52*	*1*
o-Terphenyl	*96*		*70 - 130*	*10/15/24 19:51*	*10/17/24 03:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.8**		10.0		mg/Kg			10/16/24 14:15	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49852-1	Background	89	102
880-49855-A-1-B MS	Matrix Spike	107	95
880-49855-A-1-C MSD	Matrix Spike Duplicate	82	98
LCS 880-93442/1-A	Lab Control Sample	114	113
LCSD 880-93442/2-A	Lab Control Sample Dup	119	113
MB 880-93442/5-A	Method Blank	81	100

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49802-A-2-D MS	Matrix Spike	129	110
880-49802-A-2-E MSD	Matrix Spike Duplicate	99	85
880-49852-1	Background	100	96
LCS 880-93419/2-A	Lab Control Sample	107	145 S1+
LCSD 880-93419/3-A	Lab Control Sample Dup	132 S1+	179 S1+
MB 880-93419/1-A	Method Blank	90	90

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-93442/5-A
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/16/24 09:34	10/16/24 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/16/24 09:34*	*10/16/24 11:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/16/24 09:34*	*10/16/24 11:13*	*1*

Lab Sample ID: LCS 880-93442/1-A
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93442

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1018		mg/Kg		102	70 - 130		
Toluene			0.100	0.08570		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.1151		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene			0.200	0.2197		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1081		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-93442/2-A
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93442

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1081		mg/Kg		108	70 - 130	6	35
Toluene			0.100	0.09147		mg/Kg		91	70 - 130	7	35
Ethylbenzene			0.100	0.1279		mg/Kg		128	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.2392		mg/Kg		120	70 - 130	9	35
o-Xylene			0.100	0.1166		mg/Kg		117	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-49855-A-1-B MS
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F1	0.100	0.06446	F1	mg/Kg		64	70 - 130		
Toluene	<0.00202	U	0.100	0.07115		mg/Kg		71	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49855-A-1-B MS
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.08183		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1533		mg/Kg		77	70 - 130
o-Xylene	<0.00202	U	0.100	0.07623		mg/Kg		76	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-49855-A-1-C MSD
Matrix: Solid
Analysis Batch: 93436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 93442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.08668		mg/Kg		87	70 - 130	29	35
Toluene	<0.00202	U	0.100	0.08513		mg/Kg		85	70 - 130	18	35
Ethylbenzene	<0.00202	U	0.100	0.08674		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1682		mg/Kg		84	70 - 130	9	35
o-Xylene	<0.00202	U	0.100	0.08131		mg/Kg		81	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-93419/1-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93419

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		10/15/24 19:51	10/17/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*10/15/24 19:51*	*10/17/24 01:53*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/15/24 19:51*	*10/17/24 01:53*	*1*

Lab Sample ID: LCS 880-93419/2-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	924.2		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1181		mg/Kg		118	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-93419/2-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93419

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: LCSD 880-93419/3-A
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93419

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1135	*1	mg/Kg		114	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	1443	*+	mg/Kg		144	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	179	S1+	70 - 130

Lab Sample ID: 880-49802-A-2-D MS
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93419

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 *1	996	929.9		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F2	996	911.1		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-49802-A-2-E MSD
Matrix: Solid
Analysis Batch: 93440

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 93419

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 *1	996	761.6		mg/Kg		76	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F2	996	703.8	F2	mg/Kg		71	70 - 130	26	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93459/1-A
Matrix: Solid
Analysis Batch: 93474

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			10/16/24 13:56	1

Lab Sample ID: LCS 880-93459/2-A
Matrix: Solid
Analysis Batch: 93474

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.8		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-93459/3-A
Matrix: Solid
Analysis Batch: 93474

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	246.0		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-49852-1 MS
Matrix: Solid
Analysis Batch: 93474

Client Sample ID: Background
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	22.8		250	272.2		mg/Kg		100	90 - 110		

Lab Sample ID: 880-49852-1 MSD
Matrix: Solid
Analysis Batch: 93474

Client Sample ID: Background
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22.8		250	272.4		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 93436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	8021B	93442
MB 880-93442/5-A	Method Blank	Total/NA	Solid	8021B	93442
LCS 880-93442/1-A	Lab Control Sample	Total/NA	Solid	8021B	93442
LCSD 880-93442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93442
880-49855-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	93442
880-49855-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	93442

Prep Batch: 93442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	5035	
MB 880-93442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49855-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-49855-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 93543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 93419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	8015NM Prep	
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	8015B NM	93419
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015B NM	93419
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93419
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93419
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	93419
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	93419

Analysis Batch: 93562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 93459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Soluble	Solid	DI Leach	
MB 880-93459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 93459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1 MS	Background	Soluble	Solid	DI Leach	
880-49852-1 MSD	Background	Soluble	Solid	DI Leach	

Analysis Batch: 93474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Soluble	Solid	300.0	93459
MB 880-93459/1-A	Method Blank	Soluble	Solid	300.0	93459
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	300.0	93459
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93459
880-49852-1 MS	Background	Soluble	Solid	300.0	93459
880-49852-1 MSD	Background	Soluble	Solid	300.0	93459

Lab Chronicle

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

Client Sample ID: Background

Date Collected: 10/15/24 00:00
Date Received: 10/15/24 16:50

Lab Sample ID: 880-49852-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93543	10/16/24 12:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93562	10/17/24 03:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 03:52	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 14:15	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
Job ID: 880-49852-1
Project/Site: Dogie Draw Ender Wiggings
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: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
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: Dogie Draw Ender Wiggings

Job ID: 880-49852-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49852-1	Background	Solid	10/15/24 00:00	10/15/24 16:50

Released to Imaging: 4/9/2025 10:23:24 AM
Received by OCD: 2/28/2025 10:57:57 AM

Chain of Custody

880-49852 Chain of Custody

Page 1 of 1

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

Project Name:	Dogie Draw Ender Wiggins	Turn Around	
Project Number:	2548	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date:	5 day
Sampler's Name:	CRM & DD		
Work Order	200223681		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.8	
Total Containers:		Corrected Temperature:	5.7	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold
Background	10/15/2024		X		G	1	X	X	X	

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O

Cool: Cool MeOH: Me

HCL: HC HNO_3: HN

H_2S0_4: H_2 NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/15/24 1650

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-49852-1
SDG Number: Lea County, New Mexico

Login Number: 49852
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/13/2025 2:04:32 PM

JOB DESCRIPTION

Dogie Draw Ender Wiggins
2548

JOB NUMBER

890-7563-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 4/3/2025 10:25:24 AM

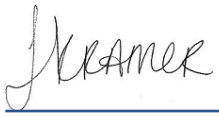
Eurofins Carlsbad

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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1/13/2025 2:04:32 PM

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

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Laboratory Job ID: 890-7563-1
SDG: 2548

Table of Contents

Definitions/Glossary

Client: Carmona Resources Job ID: 890-7563-1
Project/Site: Dogie Draw Ender Wiggins SDG: 2548

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.
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: Dogie Draw Ender Wiggins

Job ID: 890-7563-1

Job ID: 890-7563-1 Eurofins Carlsbad

Job Narrative
890-7563-1

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 1/10/2025 2:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°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 laboratory control sample duplicate (LCSD) associated with preparation batch 880-100114 and analytical batch 880-100138 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-100114/3-A). 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

Client Sample ID: CS-1 (SURFACE)

Date Collected: 01/10/25 06:00
Date Received: 01/10/25 14:00

Lab Sample ID: 890-7563-1

Matrix: Solid

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		01/13/25 08:01	01/13/25 11:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/13/25 08:01	01/13/25 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/13/25 08:01*	*01/13/25 11:21*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/13/25 08:01*	*01/13/25 11:21*	*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			01/13/25 11:21	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			01/13/25 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		01/13/25 08:26	01/13/25 11:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		01/13/25 08:26	01/13/25 11:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/25 08:26	01/13/25 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/13/25 08:26*	*01/13/25 11:43*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/13/25 08:26*	*01/13/25 11:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2190**		49.6		mg/Kg			01/13/25 10:33	5

Surrogate Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-7563-1	CS-1 (SURFACE)	124	96										
890-7563-1 MS	CS-1 (SURFACE)	120	96										
890-7563-1 MSD	CS-1 (SURFACE)	125	96										
LCS 880-100108/1-A	Lab Control Sample	123	96										
LCSD 880-100108/2-A	Lab Control Sample Dup	127	94										
MB 880-100108/5-A	Method Blank	127	91										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-7563-1	CS-1 (SURFACE)	80	77										
890-7563-1 MS	CS-1 (SURFACE)	86	76										
890-7563-1 MSD	CS-1 (SURFACE)	86	79										
LCS 880-100114/2-A	Lab Control Sample	90	84										
LCSD 880-100114/3-A	Lab Control Sample Dup	159 S1+	138 S1+										
MB 880-100114/1-A	Method Blank	90	90										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100108/5-A
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/13/25 08:01	01/13/25 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*01/13/25 08:01*	*01/13/25 11:00*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/13/25 08:01*	*01/13/25 11:00*	*1*

Lab Sample ID: LCS 880-100108/1-A
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100108

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1189		mg/Kg		119	70 - 130		
Toluene			0.100	0.1138		mg/Kg		114	70 - 130		
Ethylbenzene			0.100	0.1163		mg/Kg		116	70 - 130		
m-Xylene & p-Xylene			0.200	0.2387		mg/Kg		119	70 - 130		
o-Xylene			0.100	0.1202		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-100108/2-A
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100108

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1169		mg/Kg		117	70 - 130	2	35
Toluene			0.100	0.1112		mg/Kg		111	70 - 130	2	35
Ethylbenzene			0.100	0.1148		mg/Kg		115	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2328		mg/Kg		116	70 - 130	2	35
o-Xylene			0.100	0.1178		mg/Kg		118	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-7563-1 MS
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: CS-1 (SURFACE)
Prep Type: Total/NA
Prep Batch: 100108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0992	0.1112		mg/Kg		112	70 - 130		
Toluene	<0.00199	U	0.0992	0.1067		mg/Kg		108	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

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

Lab Sample ID: 890-7563-1 MS
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: CS-1 (SURFACE)
Prep Type: Total/NA
Prep Batch: 100108

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0992	0.1108		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2238		mg/Kg		113	70 - 130
o-Xylene	<0.00199	U	0.0992	0.1142		mg/Kg		115	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-7563-1 MSD
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: CS-1 (SURFACE)
Prep Type: Total/NA
Prep Batch: 100108

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1131		mg/Kg		113	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.1085		mg/Kg		108	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.1123		mg/Kg		112	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2271		mg/Kg		113	70 - 130	1	35
o-Xylene	<0.00199	U	0.100	0.1157		mg/Kg		115	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 880-100114/1-A
Matrix: Solid
Analysis Batch: 100138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100114

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		01/13/25 08:26	01/13/25 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/25 08:26	01/13/25 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/25 08:26	01/13/25 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*01/13/25 08:26*	*01/13/25 10:10*	*1*
o-Terphenyl	*90*		*70 - 130*	*01/13/25 08:26*	*01/13/25 10:10*	*1*

Lab Sample ID: LCS 880-100114/2-A
Matrix: Solid
Analysis Batch: 100138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	887.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	840.1		mg/Kg		84	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

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

Lab Sample ID: LCS 880-100114/2-A
Matrix: Solid
Analysis Batch: 100138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100114

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-100114/3-A
Matrix: Solid
Analysis Batch: 100138

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100114

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1180	*1	mg/Kg		118	70 - 130	28	20
Diesel Range Organics (Over C10-C28)			1000	1375	*+ *1	mg/Kg		138	70 - 130	48	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	159	S1+	70 - 130
o-Terphenyl	138	S1+	70 - 130

Lab Sample ID: 890-7563-1 MS
Matrix: Solid
Analysis Batch: 100138

Client Sample ID: CS-1 (SURFACE)
Prep Type: Total/NA
Prep Batch: 100114

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 *1	999	821.9		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	999	845.0		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 890-7563-1 MSD
Matrix: Solid
Analysis Batch: 100138

Client Sample ID: CS-1 (SURFACE)
Prep Type: Total/NA
Prep Batch: 100114

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 *1	999	818.3		mg/Kg		82	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	999	787.3		mg/Kg		79	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	79		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100105/1-A
Matrix: Solid
Analysis Batch: 100115

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			01/13/25 09:40	1

Lab Sample ID: LCS 880-100105/2-A
Matrix: Solid
Analysis Batch: 100115

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.4		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-100105/3-A
Matrix: Solid
Analysis Batch: 100115

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

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

Lab Sample ID: 880-53060-A-1-D MS
Matrix: Solid
Analysis Batch: 100115

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	248		251	511.8		mg/Kg		105	90 - 110		

Lab Sample ID: 880-53060-A-1-E MSD
Matrix: Solid
Analysis Batch: 100115

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	248		251	513.7		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

GC VOA

Prep Batch: 100108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	5035	
MB 880-100108/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100108/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100108/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7563-1 MS	CS-1 (SURFACE)	Total/NA	Solid	5035	
890-7563-1 MSD	CS-1 (SURFACE)	Total/NA	Solid	5035	

Analysis Batch: 100111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	8021B	100108
MB 880-100108/5-A	Method Blank	Total/NA	Solid	8021B	100108
LCS 880-100108/1-A	Lab Control Sample	Total/NA	Solid	8021B	100108
LCSD 880-100108/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100108
890-7563-1 MS	CS-1 (SURFACE)	Total/NA	Solid	8021B	100108
890-7563-1 MSD	CS-1 (SURFACE)	Total/NA	Solid	8021B	100108

Analysis Batch: 100160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	8015NM Prep	
MB 880-100114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7563-1 MS	CS-1 (SURFACE)	Total/NA	Solid	8015NM Prep	
890-7563-1 MSD	CS-1 (SURFACE)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	8015B NM	100114
MB 880-100114/1-A	Method Blank	Total/NA	Solid	8015B NM	100114
LCS 880-100114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100114
LCSD 880-100114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100114
890-7563-1 MS	CS-1 (SURFACE)	Total/NA	Solid	8015B NM	100114
890-7563-1 MSD	CS-1 (SURFACE)	Total/NA	Solid	8015B NM	100114

Analysis Batch: 100156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Soluble	Solid	DI Leach	
MB 880-100105/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100105/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100105/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

HPLC/IC (Continued)

Leach Batch: 100105 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53060-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-53060-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 100115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Soluble	Solid	300.0	100105
MB 880-100105/1-A	Method Blank	Soluble	Solid	300.0	100105
LCS 880-100105/2-A	Lab Control Sample	Soluble	Solid	300.0	100105
LCSD 880-100105/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100105
880-53060-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	100105
880-53060-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	100105

Lab Chronicle

Client: Carmona Resources
Job ID: 890-7563-1
Project/Site: Dogie Draw Ender Wiggins
SDG: 2548

Client Sample ID: CS-1 (SURFACE)
Lab Sample ID: 890-7563-1

Date Collected: 01/10/25 06:00
Matrix: Solid

Date Received: 01/10/25 14:00

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	100108	01/13/25 08:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100111	01/13/25 11:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100160	01/13/25 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			100156	01/13/25 11:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100114	01/13/25 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100138	01/13/25 11:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	100105	01/13/25 07:53	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100115	01/13/25 10:33	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
Job ID: 890-7563-1
Project/Site: Dogie Draw Ender Wiggins
SDG: 2548

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: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

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: Dogie Draw Ender Wiggins

Job ID: 890-7563-1
SDG: 2548

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7563-1	CS-1 (SURFACE)	Solid	01/10/25 06:00	01/10/25 14:00

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Chain of Custody

890-7563 Chain of Custody

1/13/2025

Page 1 of 1

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Dogie Draw Ender Wiggins	Turn Around	
Project Number:	2548	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	24 TAT
Sampler's Name:	KR		
Work Order	200223681		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.8
Total Containers:		Corrected Temperature:	2.6

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M(GRO + DRO + MRO)	Chloride 300.0	Hold
CS-1 (Surface)	1/10/2025		X		Comp	1		X	X	X	

ANALYSIS REQUEST — Parameters

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

~~$NaHSO_4$: NABIS~~

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Kevin Reyes			1/10/25 1:40

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Received by OCD: 2/28/2025 10:57:57 AM

Released to Imaging: 4/9/2025 10:23:24 AM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-7563-1
SDG Number: 2548

Login Number: 7563
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-7563-1
SDG Number: 2548

Login Number: 7563
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 01/13/25 08:12 AM

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").		

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 409679

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 409679
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2428155987**
Incident Name	**NAPP2428155987 DOGIE DRAW E25 W25 FED COM CTB TB @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2415147694] DOGIE DRAW E25 W25 FED COM CTB TB**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DOGIE DRAW E25 W25 FED COM CTB TB
Date Release Discovered	10/07/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 172 BBL | Recovered: 172 BBL | Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A flow line connected to a water transfer pump failed resulting in a release of 171.8 bbl of produced water onto location. Recovery efforts are ongoing. The leak is isolated.

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 (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 409679
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 11/12/2024

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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 (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 409679
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	5080
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	49.6
GRO+DRO (EPA SW-846 Method 8015M)	49.6
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/10/2025
On what date will (or did) the final sampling or liner inspection occur	01/10/2025
On what date will (or was) the remediation complete(d)	01/10/2025
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	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 409679
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	All material stayed on location no remediation activities are required.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 02/28/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 409679
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 409679
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**418083**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/10/2024**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
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)	none

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

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

I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 02/28/2025

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QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	372098
	Action Number: 409679
	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

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 409679
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Remediation closure is approved.	4/9/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/9/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/9/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/9/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	4/9/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	4/9/2025