



SITE INFORMATION

Closure Report
Blue Thunder 5 Federal Com 6H (12.16.24)
Eddy County, New Mexico
Unit H Sec 05 T19S R31E
32.691554°, -103.883169°

Crude Oil Release
Point of Release: Equipment Failure
Release Date: 12.16.2024
Volume Released: 0.08 barrels of Crude Oil
Volume Recovered: 0.0 barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
Concho Operating, LLC
15 West London Road
Loving, New Mexico 88256

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

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February 18, 2025

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

**Re: Closure Report
Blue Thunder 5 Federal Com 6H (12.16.24)
Concho Operating, LLC
Site Location: Unit H, S05, T19S, R31E
(Lat 32.691554°, Long -103.883169°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Blue Thunder 5 Federal Com 6H (12.26.24). The site is located at 32.691554, -103.883169 within Unit H, S05, T19S, R31E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on December 16, 2024 due to equipment failure. The incident released approximately zero point zero eight (0.08) barrels of crude oil with zero (0) barrels recovered. The impacted area occurred in the pad, as shown in Figure 3. The Notice of Release is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.92 miles Southeast of the site in S10, T19S, R31E and was drilled in 2024. The well has a reported depth to groundwater greater than 105' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On December 31, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) sample points (S-1) and five (5) horizontal sample points (H-1 through H-5) were installed to total depths ranging from surface to 1' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis,



the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix D.

5.0 Remediation Activities

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on January 22, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. The area of S-1 was excavated to a depth of 2.0' to ensure the removal of all impacted material. A total of three (3) confirmation floor samples were collected (CS-1 through CS-3), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 45 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

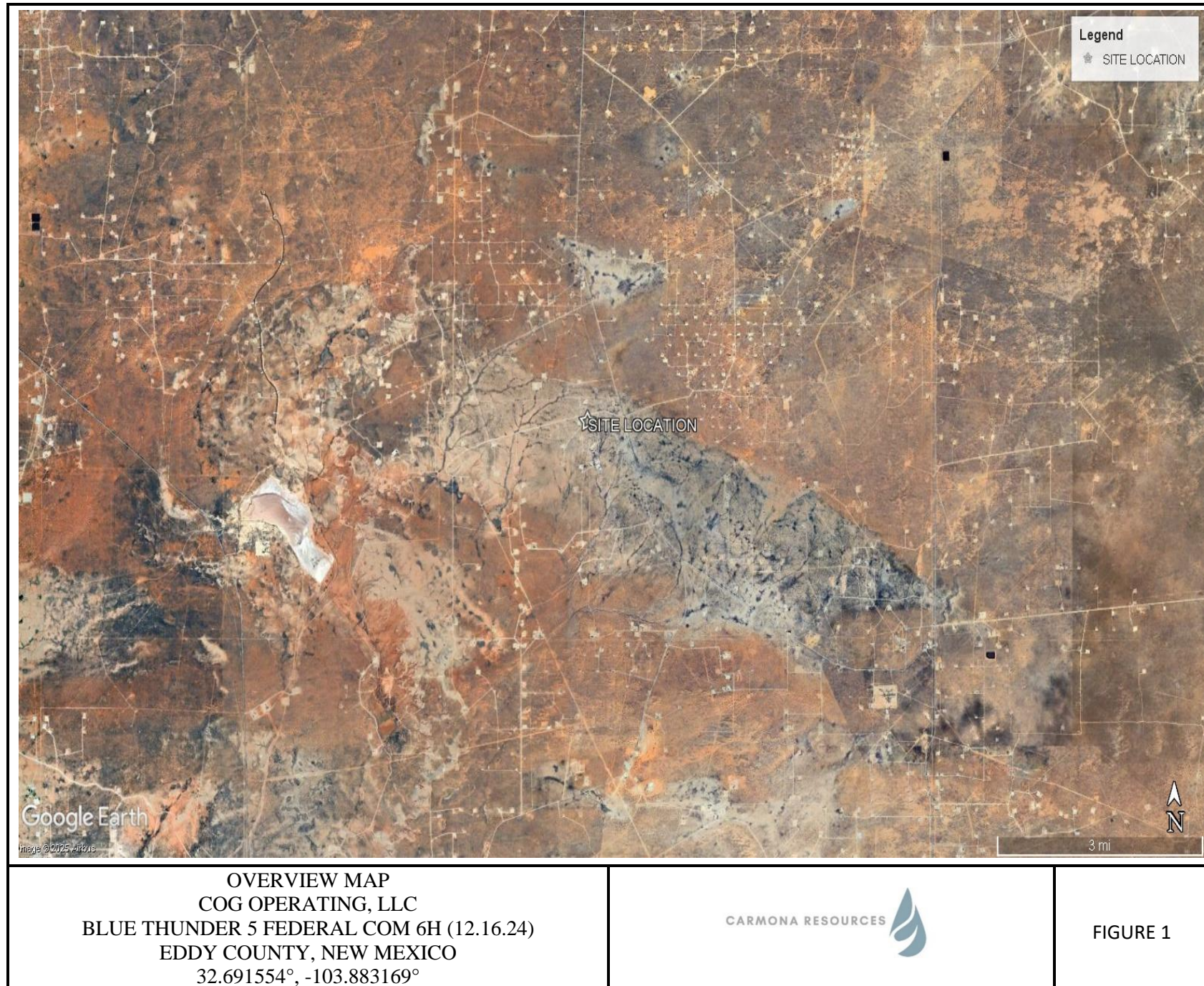
Conner Moehring
Environmental Manager

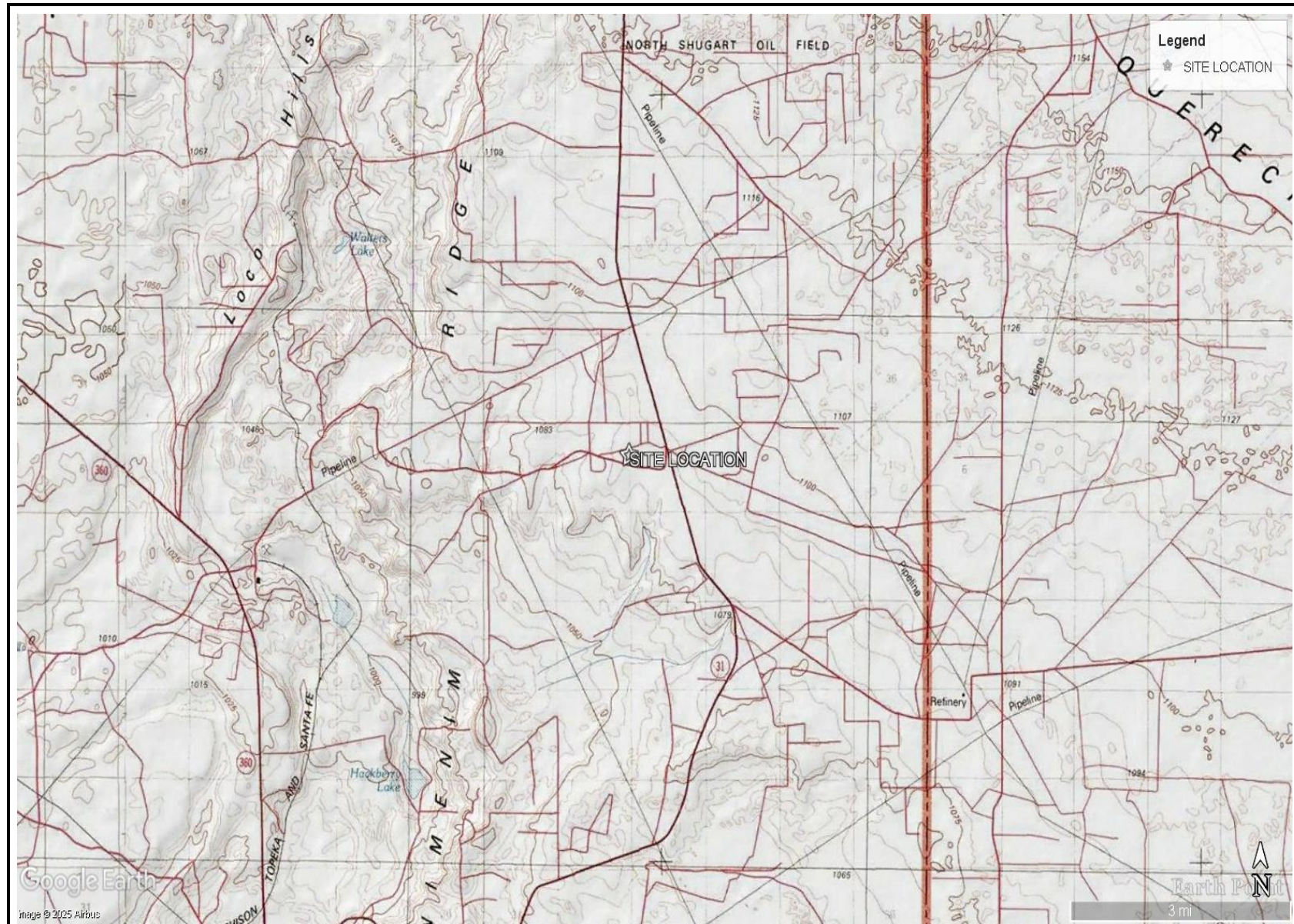
Stephen Reyes
Sr. Project Manager

FIGURES

CARMONA RESOURCES





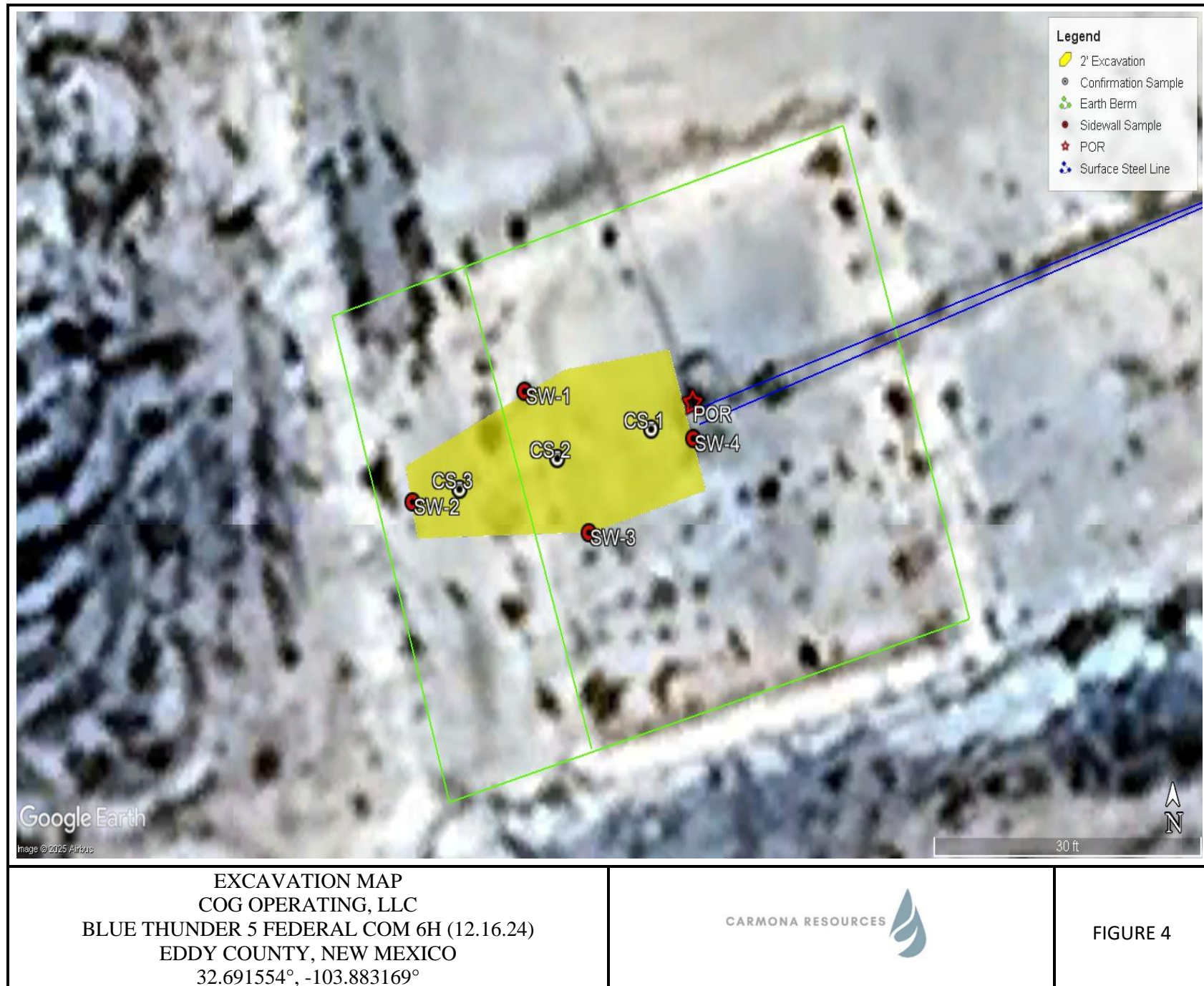


TOPOGRAPHIC MAP
 COG OPERATING, LLC
 BLUE THUNDER 5 FEDERAL COM 6H (12.16.24)
 EDDY COUNTY, NEW MEXICO
 32.691554°, -103.883169°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
COP
Blue Thunder 5 Fed 6H (12.16.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	12/31/2024	0-0.5'	<50.0	1,060	<50.0	1,060	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	102
	"	1'	<49.8	159	<49.8	159	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	59.4
H-1	12/31/2024	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	91.1
H-2	12/31/2024	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	109
H-3	12/31/2024	0-0.5'	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	21.3
H-4	12/31/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	82.9
H-5	12/31/2024	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	38.5
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

(H) Horizontal Point

Removed

Table 2
COP
Blue Thunder 5 Fed 6H (12.16.24)
Eddy 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	1/27/2025	2'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	13.2
CS-2	1/27/2025	2'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	12.4
CS-3	1/27/2025	2'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.1
SW-1	1/27/2025	2'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<10.1
SW-2	1/27/2025	2'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<10.0
SW-3	1/27/2025	2'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<9.90
SW-4	1/27/2025	2'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<9.92
Backfill Sample	1/27/2025	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	24.0
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

COG Operating, LLC

Photograph No. 1

Facility: Blue Thunder 5 Federal Com 6H
(12.16.24)

County: Eddy County, New Mexico

Description:

View East, of the excavation, area of CS-1 - CS-3.



Photograph No. 2

Facility: Blue Thunder 5 Federal Com 6H
(12.16.24)

County: Eddy County, New Mexico

Description:

View Northeast, area of backfilled excavation



APPENDIX C

CARMONA RESOURCES



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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 413118

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413118
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Blue Thunder 5 Federal Com 6H
Date Release Discovered	12/16/2024
Surface Owner	Federal

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

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

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QUESTIONS, Page 2

Action 413118

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413118
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

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

Initial Response

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

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

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

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ACKNOWLEDGMENTS

Action 413118

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413118
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

CONDITIONS

Action 413118

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413118
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jacquih	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/17/2024

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 423767

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 423767
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2435256342
Incident Name	NAPP2435256342 BLUE THUNDER 5 FEDERAL COM 6H @ 30-015-41614
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Well	[30-015-41614] BLUE THUNDER 5 FEDERAL COM #006H

Location of Release Source	
Site Name	Blue Thunder 5 Federal Com 6H
Date Release Discovered	12/16/2024
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	525
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/27/2025
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Conner Moehring – 432-813-6823
Please provide any information necessary for navigation to sampling site	coordinates are on C-141

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CONDITIONS

Action 423767

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 423767
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/22/2025

APPENDIX D


CARMONA RESOURCES





Nearest water well


COG Operating


Legend


 0.50 Mile Radius


 1.92 Miles

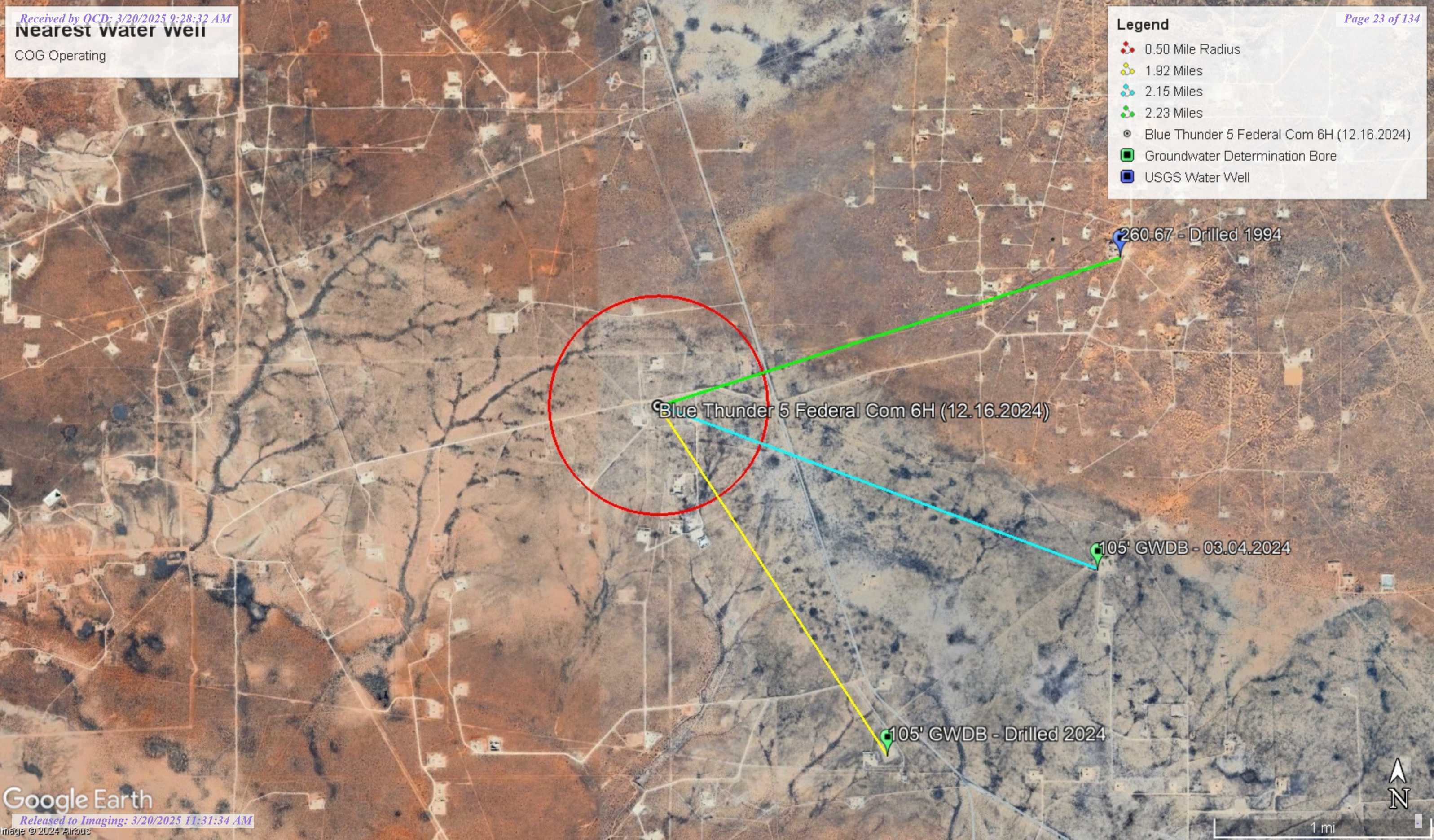
 2.15 Miles

 2.23 Miles

 Blue Thunder 5 Federal Com 6H (12.16.2024)

 Groundwater Determination Bore

 USGS Water Well



Low Karst

COG Operating

Legend

- Blue Thunder 5 Federal Com 6H (12.16.2024)
- High
- Low
- Medium

Blue Thunder 5 Federal Com 6H (12.16.2024)





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
CP 02011 POD1		CP	ED	SW	SW	SW	10	19S	31E	606373.4	3615144.8		3084	105		
CP 01985 POD1		CP	ED	NE	SE	NE	17	19S	31E	604666.5	3614438.3		3269	55		
CP 01907 POD1		CP	ED	SE	NE	NE	18	19S	31E	603017.2	3614737.1		3393			
CP 00849 POD1		CP	LE	SW	NW	SW	35	18S	31E	608012.0	3618757.0 *		3515	300		
CP 00829 POD1		CP	LE		NE	SE	16	19S	31E	606165.0	3614009.0 *		3994	120		

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 5

UTM Filters (in meters):

Easting: 604657.00
Northing: 3617708.00
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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

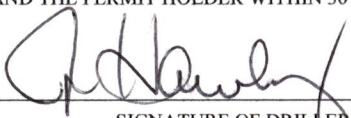
1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S) CP-2011			
	WELL OWNER NAME(S) Devon Energy Production				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6488 Seven Rivers Hwy.				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 40	SECONDS 07.85 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	51	55.95 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SW S-10 T-19S R-31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC.		
	DRILLING STARTED 8/27/24	DRILLING ENDED 8/27/24	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) Dry Hole			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 9/3/24		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:				CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>			
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
				No Casing left in hole				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A				

OSE DII ROSWELL NM
SEP 12 2024 PM 1:20

FOR OSE INTERNAL USE

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

FILE NO. CP-2011	POD NO. 1	TRN NO. 764403
LOCATION 19S-31E-10 333	WELL TAG ID NO. NA	PAGE 1 OF 2

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0	5	5	white caliche	Y ✓ N	
5	20	15	reddish brown sandy clay	Y ✓ N	
20	45	25	grayish red sandy clay	Y ✓ N	
45	50	5	dark red clay	Y ✓ N	
50	55	5	gray clay	Y ✓ N	
55	80	25	reddish gray clay	Y ✓ N	
80	90	10	light tan sandy clay	Y ✓ N	
90	105	15	dark red clay	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: N/A				TOTAL ESTIMATED WELL YIELD (gpm):	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
	MISCELLANEOUS INFORMATION: well was drilled 8/27/24, no water was encountered, well was gauged on 9/3/24 and was dry, casing was removed and well was plugged in accordance with the approved plugging plan of operations.				
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Nathan Smelcer				
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  James Hawley 9/9/24 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE				

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. CP-2011	POD NO. 1	TRN NO. 764403	
LOCATION 195-3/E-10 333	WELL TAG ID NO. N/A	PAGE 2 OF 2	



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. N/A		OSE FILE NO(S) CP-01989			
	WELL OWNER NAME(S) Devon Energy Production Company				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE Nm	ZIP 88240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 40	SECONDS 52.2012 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
LONGITUDE -103 50 56.3568 W								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit D, Section 11, Township 19S, Range 31E, Lea County, New Mexico								
2. DRILLING & CASING INFORMATION	LICENSE NO WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.		
	DRILLING STARTED 03/04/2024		DRILLING ENDED 03/04/2024		DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	5.00	Soil Boring	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	10	10		Y ✓ N	
	10	20	10	Sand, red/brown, coarse to fine grain with caliche gravel	Y ✓ N	
	20	30	10	Sand with clay, fine grain, trace caliche gravel, nonuniform	Y ✓ N	
	30	40	10	Sand with caliche gravel, red, coarse trace caliche gravel, nonuniform	Y ✓ N	
	40	50	10	Sandy-clay, red, very fine to fine, noncohesive	Y ✓ N	
	50	60	10	Sand with gravel, red to brown, 52 ft silica gravel layer, thickly bedded	Y ✓ N	
	60	70	10	Sand with gravel, red to brown, fine to medium grain, trace silica	Y ✓ N	
	70	80	10	Sand with clay, grey sand with red clay, 77 ft caliche layer thickly bedded	Y ✓ N	
	80	90	10	Sand with clay, grey sand with red clay, medium to fine grain, uniform	Y ✓ N	
	90	100	10	Sand with clay, light to med brown sand with dark red/brownw clay, fine, unif.	Y ✓ N	
	100	105	5	Sand with clay, light to med brown sand with dark red/brownw clay, fine, unif.	Y ✓ N	
	105	105	0	Sand with gravel, grey sand with red clay, medium to fine grain, trace gravel	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.
		PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Scott Scarborough

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
Scott Scarborough	Digitally signed by Scott Scarborough Date: 2024.03.25 08:44:51 -0600	Scott Scarborough 03/25/2024
SIGNATURE OF DRILLER / PRINT SIGNEE NAME		DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO	PAGE 2 OF 2



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324159103503801

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

USGS 324159103503801 18S.31E.35.31324

Eddy County, New Mexico
Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83
Land-surface elevation 3,630 feet above NAVD88
The depth of the well is 300 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) 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
1971-04-05			D 62610		3367.36	NGVD29	1	Z			A
1971-04-05			D 62611		3368.92	NAVD88	1	Z			A
1971-04-05			D 72019	261.08			1	Z			A
1976-05-27			D 62610		3367.91	NGVD29	1	Z			A
1976-05-27			D 62611		3369.47	NAVD88	1	Z			A
1976-05-27			D 72019	260.53			1	Z			A
1983-04-11			D 62610		3367.94	NGVD29	1	Z			A
1983-04-11			D 62611		3369.50	NAVD88	1	Z			A
1983-04-11			D 72019	260.50			1	Z			A
1987-01-26			D 62610		3367.44	NGVD29	1	S			A
1987-01-26			D 62611		3369.00	NAVD88	1	S			A
1987-01-26			D 72019	261.00			1	S			A
1994-03-17			D 62610		3367.77	NGVD29	1	S			A
1994-03-17			D 62611		3369.33	NAVD88	1	S			A
1994-03-17			D 72019	260.67			1	S			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

Section	Code	Description
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

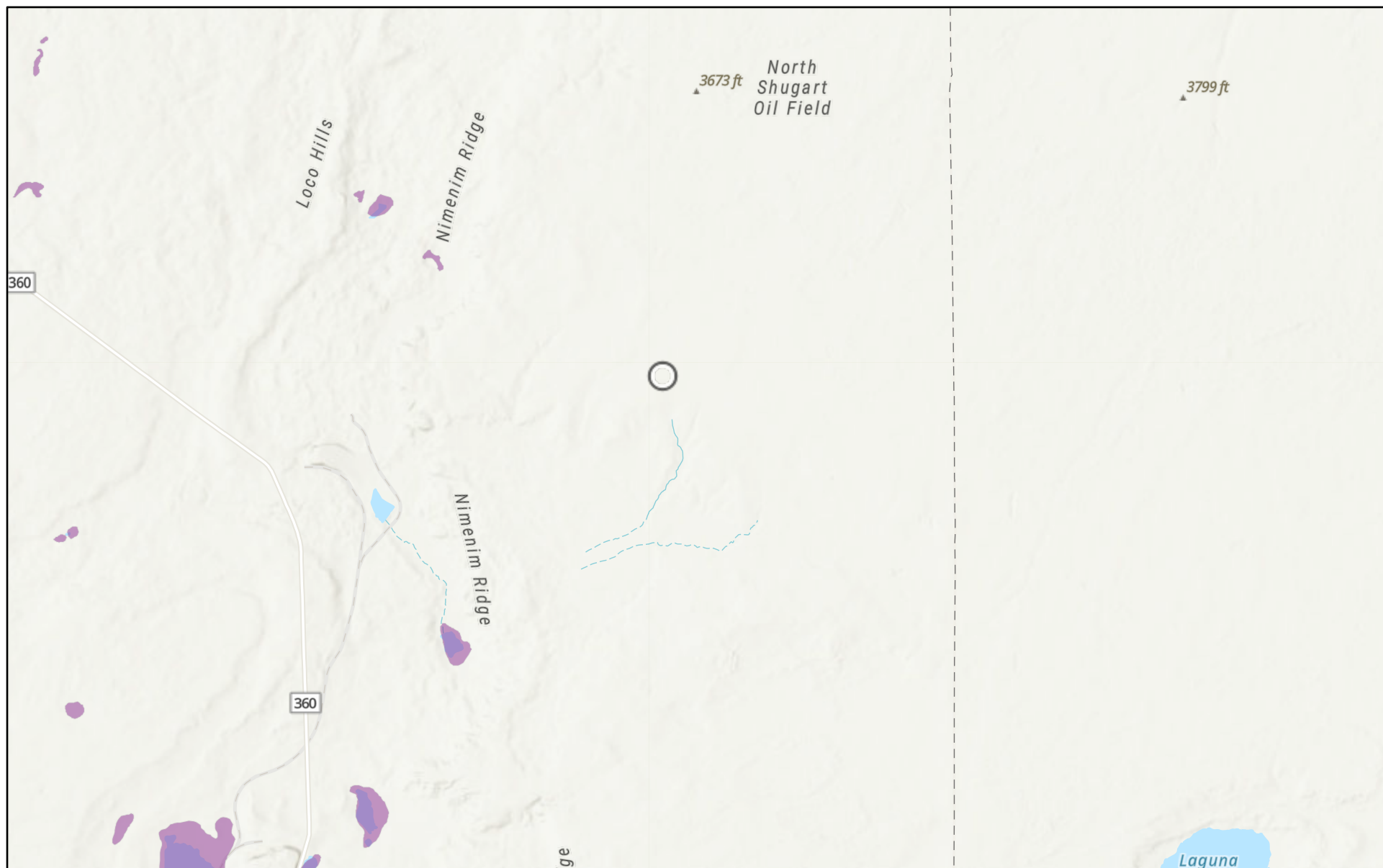
[Questions or Comments](#)
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[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2024-12-18 09:51:53 EST
0.34 0.25 nadww01

Blue Thunder 5 Federal Com 6H (12.16.2024)

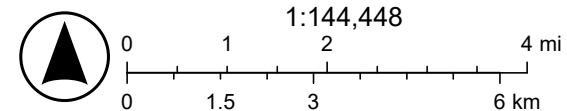


12/18/2024

USA Flood Hazard Areas

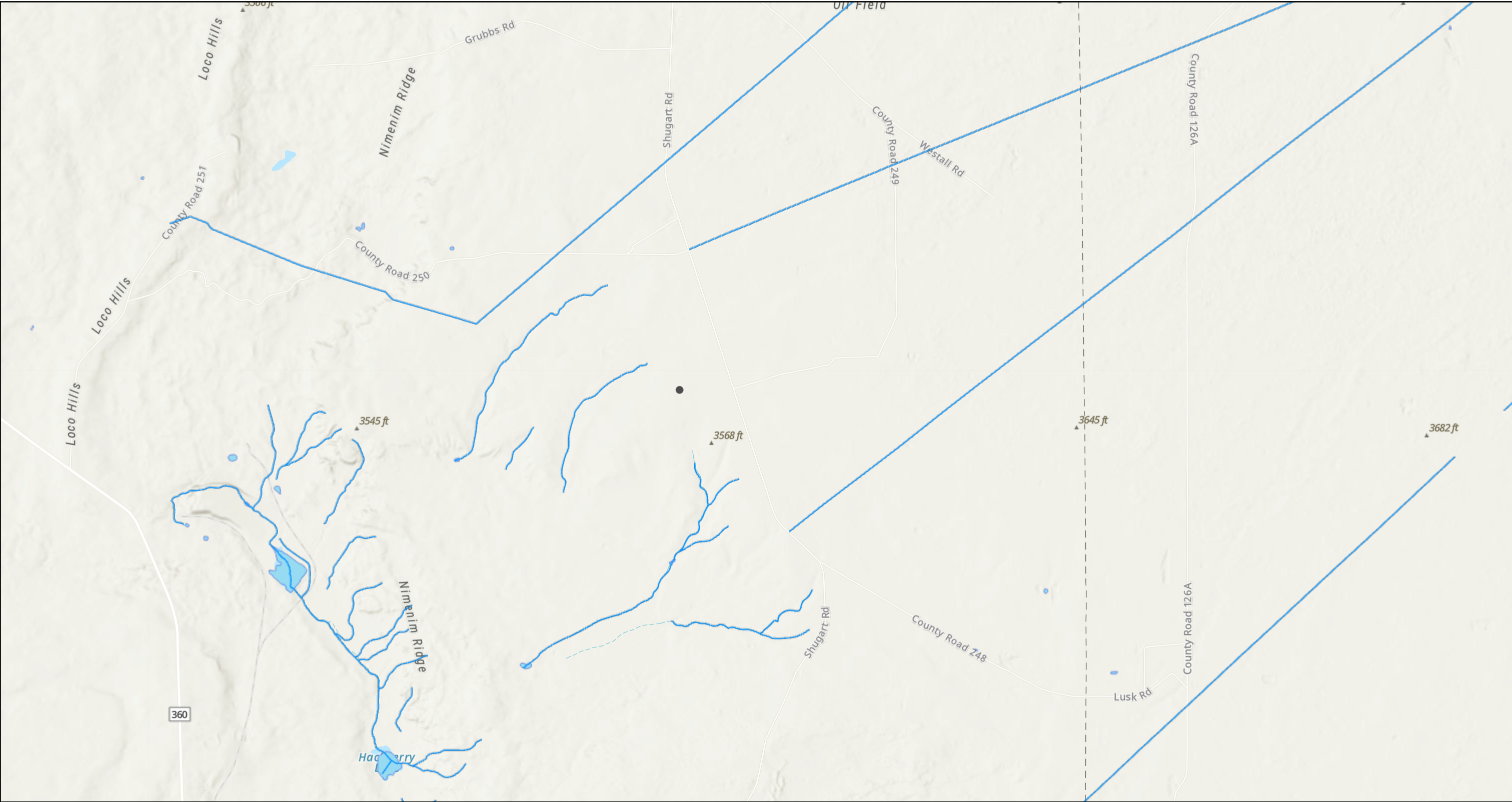
1% Annual Chance Flood Hazard

World Hillshade



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

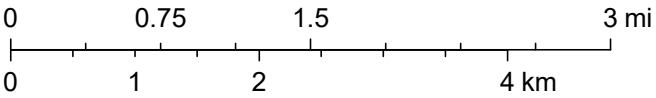
Blue Thunder 5 Federal Com 6H (12.16.2024)



12/18/2024, 8:48:04 AM

- OSW Water Bodys
- OSE Streams

1:72,224



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

APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/6/2025 10:54:03 AM

JOB DESCRIPTION

BLUE THUNDER 5 FED 6H (12.16.24)

JOB NUMBER

890-7525-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

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



Generated
1/6/2025 10:54:03 AM

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

Client: Carmona Resources
Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

Laboratory Job ID: 890-7525-1

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Definitions/Glossary

Client: Carmona Resources
Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

Job ID: 890-7525-1

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

HPLC/IC

Qualifier	Qualifier Description
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: BLUE THUNDER 5 FED 6H (12.16.24)

Job ID: 890-7525-1

Job ID: 890-7525-1

Eurofins Carlsbad

Job Narrative 890-7525-1

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 12/31/2024 2:17 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 -3.0°C.

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-99266 and analytical batch 880-99257 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 880-99306/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-99306/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-99306 and analytical batch 880-99405 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCSD and within limits in the associated laboratory control sample (LCS); therefore, the data have been reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99306 and analytical batch 880-99405 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99306 and analytical batch 880-99405 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99326 and analytical batch 880-99334 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Carlsbad

Client Sample Results

Client: Carmona Resources

Job ID: 890-7525-1

Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

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

Lab Sample ID: 890-7525-1

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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		01/02/25 08:58	01/02/25 11:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/02/25 08:58	01/02/25 11:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/02/25 08:58	01/02/25 11:51	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		01/02/25 08:58	01/02/25 11:51	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		01/02/25 08:58	01/02/25 11:51	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		01/02/25 08:58	01/02/25 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/02/25 08:58	01/02/25 11:51	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/02/25 08:58	01/02/25 11:51	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			01/02/25 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1060		50.0		mg/Kg			01/03/25 17:54	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		01/02/25 11:47	01/03/25 17:54	1
Diesel Range Organics (Over C10-C28)	1060	**	50.0		mg/Kg		01/02/25 11:47	01/03/25 17:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	01/02/25 11:47	01/03/25 17:54	1
o-Terphenyl	113		70 - 130	01/02/25 11:47	01/03/25 17:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		9.94		mg/Kg			01/03/25 00:03	1

Client Sample ID: S-1 (1)

Lab Sample ID: 890-7525-2

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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		01/02/25 08:58	01/02/25 12:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/25 08:58	01/02/25 12:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/25 08:58	01/02/25 12:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/25 08:58	01/02/25 12:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/25 08:58	01/02/25 12:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/25 08:58	01/02/25 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/02/25 08:58	01/02/25 12:12	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/02/25 08:58	01/02/25 12:12	1

Eurofins Carlsbad

Client Sample Results

Client: Carmona Resources
Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

Job ID: 890-7525-1

Client Sample ID: S-1 (1)

Lab Sample ID: 890-7525-2

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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			01/02/25 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	159		49.8		mg/Kg			01/03/25 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/02/25 11:47	01/03/25 18:08	1
Diesel Range Organics (Over C10-C28)	159	**	49.8		mg/Kg		01/02/25 11:47	01/03/25 18:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/02/25 11:47	01/03/25 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				01/02/25 11:47	01/03/25 18:08	1
o-Terphenyl	89		70 - 130				01/02/25 11:47	01/03/25 18:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.4		10.0		mg/Kg			01/03/25 00:09	1

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Surrogate Summary

Client: Carmona Resources

Job ID: 890-7525-1

Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

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)
890-7525-1	S-1 (0-0.5)	116	106
890-7525-1 MS	S-1 (0-0.5)	106	98
890-7525-1 MSD	S-1 (0-0.5)	109	100
890-7525-2	S-1 (1)	120	101
LCS 880-99266/1-A	Lab Control Sample	107	100
LCSD 880-99266/2-A	Lab Control Sample Dup	107	100
MB 880-99266/5-A	Method Blank	101	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7524-A-1-C MS	Matrix Spike	95	90
890-7524-A-1-D MSD	Matrix Spike Duplicate	96	88
890-7525-1	S-1 (0-0.5)	87	113
890-7525-2	S-1 (1)	85	89
LCS 880-99306/2-A	Lab Control Sample	142 S1+	126
LCSD 880-99306/3-A	Lab Control Sample Dup	161 S1+	147 S1+
MB 880-99306/1-A	Method Blank	102	100
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources

Job ID: 890-7525-1

Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99266/5-A

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/02/25 08:58	01/02/25 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/02/25 08:58	01/02/25 11:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/02/25 08:58	01/02/25 11:30	1

Lab Sample ID: LCS 880-99266/1-A

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09641		mg/Kg		96	70 - 130
Toluene	0.100	0.09070		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09097		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1855		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09453		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-99266/2-A

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09796		mg/Kg		98	70 - 130	2	35
Toluene	0.100	0.09256		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.09293		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1885		mg/Kg		94	70 - 130	2	35
o-Xylene	0.100	0.09643		mg/Kg		96	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7525-1 MS

Matrix: Solid

Analysis Batch: 99257

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

Prep Type: Total/NA

Prep Batch: 99266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.09891		mg/Kg		99	70 - 130
Toluene	<0.00201	U	0.0998	0.08277		mg/Kg		83	70 - 130

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QC Sample Results

Client: Carmona Resources

Job ID: 890-7525-1

Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

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

Lab Sample ID: 890-7525-1 MS

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

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 99257

Prep Batch: 99266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.06978		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1373	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00201	U F1	0.0998	0.06804	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-7525-1 MSD

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

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 99257

Prep Batch: 99266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1059		mg/Kg		107	70 - 130	7	35
Toluene	<0.00201	U	0.0990	0.09120		mg/Kg		92	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.0990	0.07871		mg/Kg		79	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1567		mg/Kg		79	70 - 130	13	35
o-Xylene	<0.00201	U F1	0.0990	0.07854		mg/Kg		79	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-99306/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 99405

Prep Batch: 99306

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		01/02/25 11:47	01/03/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	01/02/25 11:47	01/03/25 01:04	1
o-Terphenyl	100		70 - 130	01/02/25 11:47	01/03/25 01:04	1

Lab Sample ID: LCS 880-99306/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 99405

Prep Batch: 99306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1200		mg/Kg		120	70 - 130

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QC Sample Results

Client: Carmona Resources

Job ID: 890-7525-1

Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

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

Lab Sample ID: LCS 880-99306/2-A

Matrix: Solid

Analysis Batch: 99405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99306

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	142	S1+	70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-99306/3-A

Matrix: Solid

Analysis Batch: 99405

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99306

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1351	*+	mg/Kg		135	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	1347	*+	mg/Kg		135	70 - 130	12	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	161	S1+	70 - 130
o-Terphenyl	147	S1+	70 - 130

Lab Sample ID: 890-7524-A-1-C MS

Matrix: Solid

Analysis Batch: 99405

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99306

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 ** F1	994	682.6	F1	mg/Kg		69	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U ** F1	994	679.7	F1	mg/Kg		68	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-7524-A-1-D MSD

Matrix: Solid

Analysis Batch: 99405

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 99306

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 ** F1	994	721.8		mg/Kg		73	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U ** F1	994	670.4	F1	mg/Kg		67	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	88		70 - 130

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QC Sample Results

Client: Carmona Resources

Job ID: 890-7525-1

Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99326/1-A

Matrix: Solid

Analysis Batch: 99334

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			01/02/25 21:47	1

Lab Sample ID: LCS 880-99326/2-A

Matrix: Solid

Analysis Batch: 99334

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.6		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-99326/3-A

Matrix: Solid

Analysis Batch: 99334

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	272.7		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 890-7524-A-3-D MS

Matrix: Solid

Analysis Batch: 99334

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	21.3	F1	249	399.8	F1	mg/Kg		152	90 - 110

Lab Sample ID: 890-7524-A-3-E MSD

Matrix: Solid

Analysis Batch: 99334

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	21.3	F1	249	400.1	F1	mg/Kg		152	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources

Job ID: 890-7525-1

Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

GC VOA

Analysis Batch: 99257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7525-1	S-1 (0-0.5)	Total/NA	Solid	8021B	99266
890-7525-2	S-1 (1)	Total/NA	Solid	8021B	99266
MB 880-99266/5-A	Method Blank	Total/NA	Solid	8021B	99266
LCS 880-99266/1-A	Lab Control Sample	Total/NA	Solid	8021B	99266
LCSD 880-99266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99266
890-7525-1 MS	S-1 (0-0.5)	Total/NA	Solid	8021B	99266
890-7525-1 MSD	S-1 (0-0.5)	Total/NA	Solid	8021B	99266

Prep Batch: 99266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7525-1	S-1 (0-0.5)	Total/NA	Solid	5035	
890-7525-2	S-1 (1)	Total/NA	Solid	5035	
MB 880-99266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7525-1 MS	S-1 (0-0.5)	Total/NA	Solid	5035	
890-7525-1 MSD	S-1 (0-0.5)	Total/NA	Solid	5035	

Analysis Batch: 99352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7525-1	S-1 (0-0.5)	Total/NA	Solid	Total BTEX	
890-7525-2	S-1 (1)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7525-1	S-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
890-7525-2	S-1 (1)	Total/NA	Solid	8015NM Prep	
MB 880-99306/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99306/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7524-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7524-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7525-1	S-1 (0-0.5)	Total/NA	Solid	8015B NM	99306
890-7525-2	S-1 (1)	Total/NA	Solid	8015B NM	99306
MB 880-99306/1-A	Method Blank	Total/NA	Solid	8015B NM	99306
LCS 880-99306/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99306
LCSD 880-99306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99306
890-7524-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	99306
890-7524-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99306

Analysis Batch: 99544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7525-1	S-1 (0-0.5)	Total/NA	Solid	8015 NM	
890-7525-2	S-1 (1)	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources

Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

Job ID: 890-7525-1

HPLC/IC

Leach Batch: 99326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7525-1	S-1 (0-0.5)	Soluble	Solid	DI Leach	
890-7525-2	S-1 (1)	Soluble	Solid	DI Leach	
MB 880-99326/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99326/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99326/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7524-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7524-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 99334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7525-1	S-1 (0-0.5)	Soluble	Solid	300.0	99326
890-7525-2	S-1 (1)	Soluble	Solid	300.0	99326
MB 880-99326/1-A	Method Blank	Soluble	Solid	300.0	99326
LCS 880-99326/2-A	Lab Control Sample	Soluble	Solid	300.0	99326
LCSD 880-99326/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99326
890-7524-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	99326
890-7524-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99326

Lab Chronicle

Client: Carmona Resources
Project/Site: BLUE THUNDER 5 FED 6H (12.16.24)

Job ID: 890-7525-1

Client Sample ID: S-1 (0-0.5)
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 14:17

Lab Sample ID: 890-7525-1
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			4.98 g	5 mL	99266	01/02/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99257	01/02/25 11:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99352	01/02/25 11:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			99544	01/03/25 17:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 17:54	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99326	01/02/25 13:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99334	01/03/25 00:03	CH	EET MID

Client Sample ID: S-1 (1)
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 14:17

Lab Sample ID: 890-7525-2
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			5.02 g	5 mL	99266	01/02/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99257	01/02/25 12:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99352	01/02/25 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99544	01/03/25 18:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 18:08	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99326	01/02/25 13:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99334	01/03/25 00:09	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: BLUE THUNDER 5 FED 6H (12.16.24)

Job ID: 890-7525-1

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: BLUE THUNDER 5 FED 6H (12.16.24)

Job ID: 890-7525-1

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: BLUE THUNDER 5 FED 6H (12.16.24)

Job ID: 890-7525-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7525-1	S-1 (0-0.5)	Solid	12/31/24 00:00	12/31/24 14:17
890-7525-2	S-1 (1)	Solid	12/31/24 00:00	12/31/24 14:17

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Chain of Custody

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

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

[illegible]

890-7525 Chain of Custody



Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

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

Wm. L. Davis

14:67 12/31

Edith

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-7525-1

Login Number: 7525

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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: 890-7525-1

Login Number: 7525

List Source: Eurofins Midland

List Number: 2

List Creation: 01/02/25 08:22 AM

Creator: Vasquez, Julisa

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/6/2025 10:54:03 AM

JOB DESCRIPTION

Blue Thunder 5 Fed 6H (12.16.24)
2610

JOB NUMBER

890-7524-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

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



Generated
1/6/2025 10:54:03 AM

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

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Laboratory Job ID: 890-7524-1
SDG: 2610

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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

HPLC/IC

Qualifier	Qualifier Description
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: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1

Job ID: 890-7524-1

Eurofins Carlsbad

Job Narrative 890-7524-1

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 12/31/2024 2:17 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 -3.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5) (890-7524-1), H-2 (0-0.5) (890-7524-2), H-3 (0-0.5) (890-7524-3), H-4 (0-0.5) (890-7524-4) and H-5 (0-0.5) (890-7524-5).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-99266 and analytical batch 880-99257 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 880-99306/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-99306/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-99306 and analytical batch 880-99405 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCSD and within limits in the associated laboratory control sample (LCS); therefore, the data have been reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99306 and analytical batch 880-99405 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99306 and analytical batch 880-99405 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99326 and analytical batch 880-99334 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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Case Narrative

Client: Carmona Resources
Project: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1

Job ID: 890-7524-1 (Continued) **Eurofins Carlsbad**

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

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Eurofins Carlsbad

Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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

Lab Sample ID: 890-7524-1

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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		01/02/25 08:58	01/02/25 14:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/25 08:58	01/02/25 14:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/25 08:58	01/02/25 14:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/25 08:58	01/02/25 14:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/25 08:58	01/02/25 14:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/25 08:58	01/02/25 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	01/02/25 08:58	01/02/25 14:55	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/02/25 08:58	01/02/25 14:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/02/25 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/03/25 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ F1	49.9		mg/Kg		01/02/25 11:47	01/03/25 12:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F1	49.9		mg/Kg		01/02/25 11:47	01/03/25 12:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/02/25 11:47	01/03/25 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	01/02/25 11:47	01/03/25 12:31	1
o-Terphenyl	89		70 - 130	01/02/25 11:47	01/03/25 12:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.1		10.1		mg/Kg			01/02/25 23:12	1

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

Lab Sample ID: 890-7524-2

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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		01/02/25 08:58	01/02/25 15:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 15:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 15:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/02/25 08:58	01/02/25 15:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 15:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/02/25 08:58	01/02/25 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	01/02/25 08:58	01/02/25 15:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/02/25 08:58	01/02/25 15:16	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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

Lab Sample ID: 890-7524-2

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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			01/02/25 15:16	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			01/03/25 16:40	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		01/02/25 11:47	01/03/25 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		01/02/25 11:47	01/03/25 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				01/02/25 11:47	01/03/25 16:40	1
o-Terphenyl	88		70 - 130				01/02/25 11:47	01/03/25 16:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		9.94		mg/Kg			01/02/25 23:18	1

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

Lab Sample ID: 890-7524-3

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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		01/02/25 08:58	01/02/25 15:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/02/25 08:58	01/02/25 15:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/02/25 08:58	01/02/25 15:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/02/25 08:58	01/02/25 15:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/02/25 08:58	01/02/25 15:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/02/25 08:58	01/02/25 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				01/02/25 08:58	01/02/25 15:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/02/25 08:58	01/02/25 15:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/02/25 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/03/25 16:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U **	49.6		mg/Kg		01/02/25 11:47	01/03/25 16:55	1
Diesel Range Organics (Over C10-C28)	<49.6	U **	49.6		mg/Kg		01/02/25 11:47	01/03/25 16:55	1

Eurofins Carlsbad

Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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

Lab Sample ID: 890-7524-3

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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)	<49.6	U	49.6		mg/Kg		01/02/25 11:47	01/03/25 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				01/02/25 11:47	01/03/25 16:55	1
o-Terphenyl	82		70 - 130				01/02/25 11:47	01/03/25 16:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3	F1	9.96		mg/Kg			01/02/25 23:23	1

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

Lab Sample ID: 890-7524-4

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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		01/02/25 08:58	01/02/25 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 17:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/02/25 08:58	01/02/25 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 17:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/02/25 08:58	01/02/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/02/25 08:58	01/02/25 17:10	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/02/25 08:58	01/02/25 17:10	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			01/02/25 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/03/25 17:24	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		01/02/25 11:47	01/03/25 17:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		01/02/25 11:47	01/03/25 17:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/02/25 11:47	01/03/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				01/02/25 11:47	01/03/25 17:24	1
o-Terphenyl	84		70 - 130				01/02/25 11:47	01/03/25 17:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.9		9.90		mg/Kg			01/02/25 23:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

Client Sample ID: H-5 (0-0.5)

Lab Sample ID: 890-7524-5

Date Collected: 12/31/24 00:00

Matrix: Solid

Date Received: 12/31/24 14:17

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		01/02/25 08:58	01/02/25 17:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/02/25 08:58	01/02/25 17:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/02/25 08:58	01/02/25 17:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/02/25 08:58	01/02/25 17:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/02/25 08:58	01/02/25 17:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/02/25 08:58	01/02/25 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/02/25 08:58	01/02/25 17:31	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/02/25 08:58	01/02/25 17:31	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			01/02/25 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/03/25 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9		mg/Kg		01/02/25 11:47	01/03/25 17:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		01/02/25 11:47	01/03/25 17:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/02/25 11:47	01/03/25 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	01/02/25 11:47	01/03/25 17:38	1
o-Terphenyl	90		70 - 130	01/02/25 11:47	01/03/25 17:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.5		10.0		mg/Kg			01/02/25 23:46	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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)
890-7524-1	H-1 (0-0.5)	113	101
890-7524-2	H-2 (0-0.5)	113	101
890-7524-3	H-3 (0-0.5)	113	101
890-7524-4	H-4 (0-0.5)	119	99
890-7524-5	H-5 (0-0.5)	115	103
890-7525-A-1-A MS	Matrix Spike	106	98
890-7525-A-1-B MSD	Matrix Spike Duplicate	109	100
LCS 880-99266/1-A	Lab Control Sample	107	100
LCSD 880-99266/2-A	Lab Control Sample Dup	107	100
MB 880-99266/5-A	Method Blank	101	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7524-1	H-1 (0-0.5)	90	89
890-7524-1 MS	H-1 (0-0.5)	95	90
890-7524-1 MSD	H-1 (0-0.5)	96	88
890-7524-2	H-2 (0-0.5)	89	88
890-7524-3	H-3 (0-0.5)	83	82
890-7524-4	H-4 (0-0.5)	84	84
890-7524-5	H-5 (0-0.5)	90	90
LCS 880-99306/2-A	Lab Control Sample	142 S1+	126
LCSD 880-99306/3-A	Lab Control Sample Dup	161 S1+	147 S1+
MB 880-99306/1-A	Method Blank	102	100
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99266/5-A

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/25 08:58	01/02/25 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/02/25 08:58	01/02/25 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/02/25 08:58	01/02/25 11:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/02/25 08:58	01/02/25 11:30	1

Lab Sample ID: LCS 880-99266/1-A

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09641		mg/Kg		96	70 - 130
Toluene	0.100	0.09070		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09097		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1855		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09453		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-99266/2-A

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09796		mg/Kg		98	70 - 130	2	35
Toluene	0.100	0.09256		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.09293		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1885		mg/Kg		94	70 - 130	2	35
o-Xylene	0.100	0.09643		mg/Kg		96	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7525-A-1-A MS

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.09891		mg/Kg		99	70 - 130
Toluene	<0.00201	U	0.0998	0.08277		mg/Kg		83	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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

Lab Sample ID: 890-7525-A-1-A MS

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 99266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.06978		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1373	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00201	U F1	0.0998	0.06804	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-7525-A-1-B MSD

Matrix: Solid

Analysis Batch: 99257

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 99266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1059		mg/Kg		107	70 - 130	7	35
Toluene	<0.00201	U	0.0990	0.09120		mg/Kg		92	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.0990	0.07871		mg/Kg		79	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1567		mg/Kg		79	70 - 130	13	35
o-Xylene	<0.00201	U F1	0.0990	0.07854		mg/Kg		79	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-99306/1-A

Matrix: Solid

Analysis Batch: 99405

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99306

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		01/02/25 11:47	01/03/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/25 11:47	01/03/25 01:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	01/02/25 11:47	01/03/25 01:04	1
o-Terphenyl	100		70 - 130	01/02/25 11:47	01/03/25 01:04	1

Lab Sample ID: LCS 880-99306/2-A

Matrix: Solid

Analysis Batch: 99405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1200		mg/Kg		120	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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

Lab Sample ID: LCS 880-99306/2-A

Matrix: Solid

Analysis Batch: 99405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99306

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	142	S1+	70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-99306/3-A

Matrix: Solid

Analysis Batch: 99405

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99306

			Spike	LCSD	LCSD				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1351	*+	mg/Kg		135	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1347	*+	mg/Kg		135	70 - 130	12	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	161	S1+	70 - 130
o-Terphenyl	147	S1+	70 - 130

Lab Sample ID: 890-7524-1 MS

Matrix: Solid

Analysis Batch: 99405

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

Prep Type: Total/NA

Prep Batch: 99306

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** F1	994	682.6	F1	mg/Kg		69	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U ** F1	994	679.7	F1	mg/Kg		68	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-7524-1 MSD

Matrix: Solid

Analysis Batch: 99405

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

Prep Type: Total/NA

Prep Batch: 99306

	Sample	Sample	Spike	MSD	MSD				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** F1	994	721.8		mg/Kg		73	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U ** F1	994	670.4	F1	mg/Kg		67	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	88		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99326/1-A

Matrix: Solid

Analysis Batch: 99334

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			01/02/25 21:47	1

Lab Sample ID: LCS 880-99326/2-A

Matrix: Solid

Analysis Batch: 99334

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.6		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-99326/3-A

Matrix: Solid

Analysis Batch: 99334

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	272.7		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 890-7524-3 MS

Matrix: Solid

Analysis Batch: 99334

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	21.3	F1	249	399.8	F1	mg/Kg		152	90 - 110

Lab Sample ID: 890-7524-3 MSD

Matrix: Solid

Analysis Batch: 99334

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21.3	F1	249	400.1	F1	mg/Kg		152	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

GC VOA

Analysis Batch: 99257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-1	H-1 (0-0.5)	Total/NA	Solid	8021B	99266
890-7524-2	H-2 (0-0.5)	Total/NA	Solid	8021B	99266
890-7524-3	H-3 (0-0.5)	Total/NA	Solid	8021B	99266
890-7524-4	H-4 (0-0.5)	Total/NA	Solid	8021B	99266
890-7524-5	H-5 (0-0.5)	Total/NA	Solid	8021B	99266
MB 880-99266/5-A	Method Blank	Total/NA	Solid	8021B	99266
LCS 880-99266/1-A	Lab Control Sample	Total/NA	Solid	8021B	99266
LCSD 880-99266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99266
890-7525-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	99266
890-7525-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99266

Prep Batch: 99266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-1	H-1 (0-0.5)	Total/NA	Solid	5035	
890-7524-2	H-2 (0-0.5)	Total/NA	Solid	5035	
890-7524-3	H-3 (0-0.5)	Total/NA	Solid	5035	
890-7524-4	H-4 (0-0.5)	Total/NA	Solid	5035	
890-7524-5	H-5 (0-0.5)	Total/NA	Solid	5035	
MB 880-99266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7525-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7525-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-1	H-1 (0-0.5)	Total/NA	Solid	Total BTEX	
890-7524-2	H-2 (0-0.5)	Total/NA	Solid	Total BTEX	
890-7524-3	H-3 (0-0.5)	Total/NA	Solid	Total BTEX	
890-7524-4	H-4 (0-0.5)	Total/NA	Solid	Total BTEX	
890-7524-5	H-5 (0-0.5)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-1	H-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
890-7524-2	H-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
890-7524-3	H-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
890-7524-4	H-4 (0-0.5)	Total/NA	Solid	8015NM Prep	
890-7524-5	H-5 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-99306/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99306/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7524-1 MS	H-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
890-7524-1 MSD	H-1 (0-0.5)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-1	H-1 (0-0.5)	Total/NA	Solid	8015B NM	99306
890-7524-2	H-2 (0-0.5)	Total/NA	Solid	8015B NM	99306

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QC Association Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

GC Semi VOA (Continued)

Analysis Batch: 99405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-3	H-3 (0-0.5)	Total/NA	Solid	8015B NM	99306
890-7524-4	H-4 (0-0.5)	Total/NA	Solid	8015B NM	99306
890-7524-5	H-5 (0-0.5)	Total/NA	Solid	8015B NM	99306
MB 880-99306/1-A	Method Blank	Total/NA	Solid	8015B NM	99306
LCS 880-99306/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99306
LCSD 880-99306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99306
890-7524-1 MS	H-1 (0-0.5)	Total/NA	Solid	8015B NM	99306
890-7524-1 MSD	H-1 (0-0.5)	Total/NA	Solid	8015B NM	99306

Analysis Batch: 99452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-1	H-1 (0-0.5)	Total/NA	Solid	8015 NM	
890-7524-2	H-2 (0-0.5)	Total/NA	Solid	8015 NM	
890-7524-3	H-3 (0-0.5)	Total/NA	Solid	8015 NM	
890-7524-4	H-4 (0-0.5)	Total/NA	Solid	8015 NM	
890-7524-5	H-5 (0-0.5)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-1	H-1 (0-0.5)	Soluble	Solid	DI Leach	
890-7524-2	H-2 (0-0.5)	Soluble	Solid	DI Leach	
890-7524-3	H-3 (0-0.5)	Soluble	Solid	DI Leach	
890-7524-4	H-4 (0-0.5)	Soluble	Solid	DI Leach	
890-7524-5	H-5 (0-0.5)	Soluble	Solid	DI Leach	
MB 880-99326/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99326/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99326/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7524-3 MS	H-3 (0-0.5)	Soluble	Solid	DI Leach	
890-7524-3 MSD	H-3 (0-0.5)	Soluble	Solid	DI Leach	

Analysis Batch: 99334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7524-1	H-1 (0-0.5)	Soluble	Solid	300.0	99326
890-7524-2	H-2 (0-0.5)	Soluble	Solid	300.0	99326
890-7524-3	H-3 (0-0.5)	Soluble	Solid	300.0	99326
890-7524-4	H-4 (0-0.5)	Soluble	Solid	300.0	99326
890-7524-5	H-5 (0-0.5)	Soluble	Solid	300.0	99326
MB 880-99326/1-A	Method Blank	Soluble	Solid	300.0	99326
LCS 880-99326/2-A	Lab Control Sample	Soluble	Solid	300.0	99326
LCSD 880-99326/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99326
890-7524-3 MS	H-3 (0-0.5)	Soluble	Solid	300.0	99326
890-7524-3 MSD	H-3 (0-0.5)	Soluble	Solid	300.0	99326

Eurofins Carlsbad

Lab Chronicle

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

Client Sample ID: H-1 (0-0.5)
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 14:17

Lab Sample ID: 890-7524-1
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			5.02 g	5 mL	99266	01/02/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99257	01/02/25 14:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99353	01/02/25 14:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99452	01/03/25 12:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 12:31	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99326	01/02/25 13:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99334	01/02/25 23:12	CH	EET MID

Client Sample ID: H-2 (0-0.5)
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 14:17

Lab Sample ID: 890-7524-2
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			5.01 g	5 mL	99266	01/02/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99257	01/02/25 15:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99353	01/02/25 15:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99452	01/03/25 16:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 16:40	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99326	01/02/25 13:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99334	01/02/25 23:18	CH	EET MID

Client Sample ID: H-3 (0-0.5)
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 14:17

Lab Sample ID: 890-7524-3
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			5.05 g	5 mL	99266	01/02/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99257	01/02/25 15:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99353	01/02/25 15:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			99452	01/03/25 16:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 16:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99326	01/02/25 13:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99334	01/02/25 23:23	CH	EET MID

Client Sample ID: H-4 (0-0.5)
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 14:17

Lab Sample ID: 890-7524-4
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			5.01 g	5 mL	99266	01/02/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99257	01/02/25 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99353	01/02/25 17:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

Client Sample ID: H-4 (0-0.5)
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 14:17

Lab Sample ID: 890-7524-4
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			99452	01/03/25 17:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 17:24	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99326	01/02/25 13:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99334	01/02/25 23:40	CH	EET MID

Client Sample ID: H-5 (0-0.5)
Date Collected: 12/31/24 00:00
Date Received: 12/31/24 14:17

Lab Sample ID: 890-7524-5
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	99266	01/02/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99257	01/02/25 17:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99353	01/02/25 17:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			99452	01/03/25 17:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99306	01/02/25 11:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99405	01/03/25 17:38	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99326	01/02/25 13:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99334	01/02/25 23:46	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: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

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: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 890-7524-1
SDG: 2610

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7524-1	H-1 (0-0.5)	Solid	12/31/24 00:00	12/31/24 14:17
890-7524-2	H-2 (0-0.5)	Solid	12/31/24 00:00	12/31/24 14:17
890-7524-3	H-3 (0-0.5)	Solid	12/31/24 00:00	12/31/24 14:17
890-7524-4	H-4 (0-0.5)	Solid	12/31/24 00:00	12/31/24 14:17
890-7524-5	H-5 (0-0.5)	Solid	12/31/24 00:00	12/31/24 14:17

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Chain of Custody

Work Order No: _____



890-7524 Chain of Custody

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

Program: UI
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:		Blue Thunder 5 Fed 6H (12.16.24)			Turn Around			ANALYSIS REQUEST												Preservative Codes							
Project Number:		2610			<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO DI Water: H ₂ O								
Project Location		Eddy County, New Mexico			Due Date:		72 HR														Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂						
Sampler's Name:		KR																			H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC						
PO #:																											
SAMPLE RECEIPT		Temp Blank:		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Thermometer ID:		Wet Ice:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Parameters															
Received Intact:		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		NA		Correction Factor:						BTEX 8021B															
Cooler Custody Seals:		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		NA		Temperature Reading:		-3.2				TPH 8015M (GRO + DRO + MRO)															
Sample Custody Seals:		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		NA		Corrected Temperature:		-3.0				Chloride 300.0															
Total Containers:																											
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
H-1 (0-0.5')		12/31/2024				X				G		1		X													
H-2 (0-0.5')		12/31/2024				X				G		1		X													
H-3 (0-0.5')		12/31/2024				X				G		1		X													
H-4 (0-0.5')		12/31/2024				X				G		1		X													
H-5 (0-0.5')		12/31/2024				X				G		1		X													

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Kevin Kasper</i>	12/17 12:31	<i>abck</i>	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-7524-1

SDG Number: 2610

Login Number: 7524

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: 890-7524-1

SDG Number: 2610

Login Number: 7524

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 01/02/25 08:22 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/30/2025 12:24:44 PM

JOB DESCRIPTION

Blue Thunder 5 Fed 6H (12.16.24)
Eddy County, New Mexico

JOB NUMBER

880-53766-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
1/30/2025 12:24:44 PM

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

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Laboratory Job ID: 880-53766-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1

Job ID: 880-53766-1

Eurofins Midland

Job Narrative 880-53766-1

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 1/29/2025 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.8°C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (2') (880-53766-1), CS-2 (2') (880-53766-2), CS-3 (2') (880-53766-3), SW-1 (2') (880-53766-4), SW-2 (2') (880-53766-5), SW-3 (2') (880-53766-6), SW-4 (2') (880-53766-7), (CCV 880-101433/20), (CCV 880-101433/32), (CCV 880-101433/50), (LCS 880-101450/1-A), (LCSD 880-101450/2-A), (880-53766-A-1-D MS) and (880-53766-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101451 and analytical batch 880-101491 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS-2 (2') (880-53766-2). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101451 and analytical batch 880-101491 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101447 and analytical batch 880-101465 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2')

Lab Sample ID: 880-53766-1

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 13:50	01/29/25 22:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/29/25 13:50	01/29/25 22:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/29/25 13:50	01/29/25 22:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/29/25 13:50	01/29/25 22:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/29/25 13:50	01/29/25 22:40	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/29/25 13:50	01/29/25 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	01/29/25 13:50	01/29/25 22:40	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/29/25 13:50	01/29/25 22:40	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			01/29/25 22:40	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			01/29/25 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/29/25 09:27	01/29/25 17:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/29/25 09:27	01/29/25 17:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/29/25 09:27	01/29/25 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	01/29/25 09:27	01/29/25 17:02	1
o-Terphenyl	104		70 - 130	01/29/25 09:27	01/29/25 17:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		10.1		mg/Kg			01/29/25 19:01	1

Client Sample ID: CS-2 (2')

Lab Sample ID: 880-53766-2

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 13:50	01/29/25 23:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/25 13:50	01/29/25 23:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/25 13:50	01/29/25 23:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/25 13:50	01/29/25 23:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/25 13:50	01/29/25 23:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/25 13:50	01/29/25 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	01/29/25 13:50	01/29/25 23:01	1
1,4-Difluorobenzene (Surr)	86		70 - 130	01/29/25 13:50	01/29/25 23:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (2')

Lab Sample ID: 880-53766-2

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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			01/29/25 23:01	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			01/29/25 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/29/25 09:27	01/29/25 17:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/29/25 09:27	01/29/25 17:18	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/29/25 09:27	01/29/25 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				01/29/25 09:27	01/29/25 17:18	1
o-Terphenyl	111		70 - 130				01/29/25 09:27	01/29/25 17:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		10.1		mg/Kg			01/29/25 19:19	1

Client Sample ID: CS-3 (2')

Lab Sample ID: 880-53766-3

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 13:50	01/29/25 23:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/25 13:50	01/29/25 23:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/25 13:50	01/29/25 23:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/25 13:50	01/29/25 23:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/25 13:50	01/29/25 23:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/25 13:50	01/29/25 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				01/29/25 13:50	01/29/25 23:22	1
1,4-Difluorobenzene (Surr)	83		70 - 130				01/29/25 13:50	01/29/25 23:22	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			01/29/25 23:22	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			01/29/25 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/29/25 09:27	01/29/25 17:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/29/25 09:27	01/29/25 17:33	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (2')

Lab Sample ID: 880-53766-3

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 09:27	01/29/25 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				01/29/25 09:27	01/29/25 17:33	1
o-Terphenyl	106		70 - 130				01/29/25 09:27	01/29/25 17:33	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			01/29/25 19:25	1

Client Sample ID: SW-1 (2')

Lab Sample ID: 880-53766-4

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 13:50	01/29/25 23:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/25 13:50	01/29/25 23:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/25 13:50	01/29/25 23:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/25 13:50	01/29/25 23:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/25 13:50	01/29/25 23:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/25 13:50	01/29/25 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				01/29/25 13:50	01/29/25 23:42	1
1,4-Difluorobenzene (Surr)	82		70 - 130				01/29/25 13:50	01/29/25 23:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/29/25 23:42	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			01/29/25 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/29/25 09:27	01/29/25 17:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/29/25 09:27	01/29/25 17:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/29/25 09:27	01/29/25 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				01/29/25 09:27	01/29/25 17:49	1
o-Terphenyl	101		70 - 130				01/29/25 09:27	01/29/25 17:49	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			01/29/25 19:31	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (2')

Lab Sample ID: 880-53766-5

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 13:50	01/30/25 00:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/29/25 13:50	01/30/25 00:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/29/25 13:50	01/30/25 00:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/29/25 13:50	01/30/25 00:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/29/25 13:50	01/30/25 00:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/29/25 13:50	01/30/25 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	01/29/25 13:50	01/30/25 00:02	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/29/25 13:50	01/30/25 00:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/30/25 00:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/29/25 18:04	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		01/29/25 09:27	01/29/25 18:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/29/25 09:27	01/29/25 18:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/29/25 09:27	01/29/25 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	01/29/25 09:27	01/29/25 18:04	1
o-Terphenyl	101		70 - 130	01/29/25 09:27	01/29/25 18:04	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			01/29/25 19:37	1

Client Sample ID: SW-3 (2')

Lab Sample ID: 880-53766-6

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 13:50	01/30/25 00:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/25 13:50	01/30/25 00:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/25 13:50	01/30/25 00:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/25 13:50	01/30/25 00:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/25 13:50	01/30/25 00:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/25 13:50	01/30/25 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	01/29/25 13:50	01/30/25 00:23	1
1,4-Difluorobenzene (Surr)	86		70 - 130	01/29/25 13:50	01/30/25 00:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (2')

Lab Sample ID: 880-53766-6

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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			01/30/25 00:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/29/25 18:19	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	49.8		mg/Kg		01/29/25 09:27	01/29/25 18:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/29/25 09:27	01/29/25 18:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/29/25 09:27	01/29/25 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				01/29/25 09:27	01/29/25 18:19	1
o-Terphenyl	104		70 - 130				01/29/25 09:27	01/29/25 18:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.90	U	9.90		mg/Kg			01/29/25 19:43	1

Client Sample ID: SW-4 (2')

Lab Sample ID: 880-53766-7

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 13:50	01/30/25 00:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/29/25 13:50	01/30/25 00:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/29/25 13:50	01/30/25 00:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/29/25 13:50	01/30/25 00:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/29/25 13:50	01/30/25 00:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/29/25 13:50	01/30/25 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				01/29/25 13:50	01/30/25 00:43	1
1,4-Difluorobenzene (Surr)	84		70 - 130				01/29/25 13:50	01/30/25 00:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/30/25 00:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/29/25 18:34	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	<49.7	U	49.7		mg/Kg		01/29/25 09:27	01/29/25 18:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/29/25 09:27	01/29/25 18:34	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (2')
Date Collected: 01/27/25 00:00
Date Received: 01/29/25 08:35

Lab Sample ID: 880-53766-7
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		01/29/25 09:27	01/29/25 18:34	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	127		70 - 130				01/29/25 09:27	01/29/25 18:34	1	
o-Terphenyl	106		70 - 130				01/29/25 09:27	01/29/25 18:34	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			01/29/25 19:49	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-53766-1	CS-1 (2')	135 S1+	81
880-53766-1 MS	CS-1 (2')	141 S1+	87
880-53766-1 MSD	CS-1 (2')	131 S1+	84
880-53766-2	CS-2 (2')	138 S1+	86
880-53766-3	CS-3 (2')	136 S1+	83
880-53766-4	SW-1 (2')	132 S1+	82
880-53766-5	SW-2 (2')	140 S1+	81
880-53766-6	SW-3 (2')	135 S1+	86
880-53766-7	SW-4 (2')	137 S1+	84
LCS 880-101450/1-A	Lab Control Sample	151 S1+	87
LCSD 880-101450/2-A	Lab Control Sample Dup	148 S1+	86
MB 880-101378/5-A	Method Blank	125	80
MB 880-101450/5-A	Method Blank	128	78
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)
880-53762-A-1-E MS	Matrix Spike	117	110
880-53762-A-1-F MSD	Matrix Spike Duplicate	120	115
880-53766-1	CS-1 (2')	127	104
880-53766-2	CS-2 (2')	134 S1+	111
880-53766-3	CS-3 (2')	128	106
880-53766-4	SW-1 (2')	124	101
880-53766-5	SW-2 (2')	123	101
880-53766-6	SW-3 (2')	129	104
880-53766-7	SW-4 (2')	127	106
LCS 880-101451/2-A	Lab Control Sample	126	118
LCSD 880-101451/3-A	Lab Control Sample Dup	129	123
MB 880-101451/1-A	Method Blank	147 S1+	120
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101378/5-A

Matrix: Solid

Analysis Batch: 101433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/25 08:12	01/29/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/25 08:12	01/29/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/25 08:12	01/29/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/25 08:12	01/29/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/25 08:12	01/29/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/25 08:12	01/29/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	01/29/25 08:12	01/29/25 11:25	1
1,4-Difluorobenzene (Surr)	80		70 - 130	01/29/25 08:12	01/29/25 11:25	1

Lab Sample ID: MB 880-101450/5-A

Matrix: Solid

Analysis Batch: 101433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/25 13:50	01/29/25 22:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/25 13:50	01/29/25 22:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/25 13:50	01/29/25 22:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/25 13:50	01/29/25 22:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/25 13:50	01/29/25 22:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/25 13:50	01/29/25 22:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	01/29/25 13:50	01/29/25 22:19	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/29/25 13:50	01/29/25 22:19	1

Lab Sample ID: LCS 880-101450/1-A

Matrix: Solid

Analysis Batch: 101433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08848		mg/Kg		88	70 - 130
Toluene	0.100	0.07712		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.09002		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1698		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08993		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-101450/2-A

Matrix: Solid

Analysis Batch: 101433

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1070		mg/Kg		107	70 - 130	19	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-101450/2-A

Matrix: Solid

Analysis Batch: 101433

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09307		mg/Kg		93	70 - 130	19	35
Ethylbenzene	0.100	0.09394		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1950		mg/Kg		98	70 - 130	14	35
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-53766-1 MS

Matrix: Solid

Analysis Batch: 101433

Client Sample ID: CS-1 (2')

Prep Type: Total/NA

Prep Batch: 101450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.1094		mg/Kg		110	70 - 130
Toluene	<0.00198	U	0.0996	0.09631		mg/Kg		97	70 - 130
Ethylbenzene	<0.00198	U	0.0996	0.09677		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1994		mg/Kg		100	70 - 130
o-Xylene	<0.00198	U	0.0996	0.1016		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-53766-1 MSD

Matrix: Solid

Analysis Batch: 101433

Client Sample ID: CS-1 (2')

Prep Type: Total/NA

Prep Batch: 101450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09506		mg/Kg		95	70 - 130	14	35
Toluene	<0.00198	U	0.100	0.08740		mg/Kg		87	70 - 130	10	35
Ethylbenzene	<0.00198	U	0.100	0.08588		mg/Kg		86	70 - 130	12	35
m-Xylene & p-Xylene	<0.00397	U	0.200	0.1835		mg/Kg		92	70 - 130	8	35
o-Xylene	<0.00198	U	0.100	0.09227		mg/Kg		92	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

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

Lab Sample ID: MB 880-101451/1-A

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101451

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		01/29/25 09:27	01/29/25 07:56	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-101451/1-A

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/29/25 09:27	01/29/25 07:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/29/25 09:27	01/29/25 07:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				01/29/25 09:27	01/29/25 07:56	1
o-Terphenyl	120		70 - 130				01/29/25 09:27	01/29/25 07:56	1

Lab Sample ID: LCS 880-101451/2-A

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1092		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	126		70 - 130				
o-Terphenyl	118		70 - 130				

Lab Sample ID: LCSD 880-101451/3-A

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101451

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1141		mg/Kg		114	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	129		70 - 130						
o-Terphenyl	123		70 - 130						

Lab Sample ID: 880-53762-A-1-E MS

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101451

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 F1	998	1340	F1	mg/Kg		134	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1394	F1	mg/Kg		140	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	110		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-53762-A-1-F MSD

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 101451

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 F1	998	1368	F1	mg/Kg		137	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1466	F1	mg/Kg		147	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	120		70 - 130								
o-Terphenyl	115		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101447/1-A

Matrix: Solid

Analysis Batch: 101465

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			01/29/25 16:58	1

Lab Sample ID: LCS 880-101447/2-A

Matrix: Solid

Analysis Batch: 101465

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-101447/3-A

Matrix: Solid

Analysis Batch: 101465

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	251.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-53763-A-10-B MS

Matrix: Solid

Analysis Batch: 101465

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	113	F1	249	390.5	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-53763-A-10-C MSD

Matrix: Solid

Analysis Batch: 101465

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	113	F1	249	390.5	F1	mg/Kg		112	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 101378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101378/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 101433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-1	CS-1 (2')	Total/NA	Solid	8021B	101450
880-53766-2	CS-2 (2')	Total/NA	Solid	8021B	101450
880-53766-3	CS-3 (2')	Total/NA	Solid	8021B	101450
880-53766-4	SW-1 (2')	Total/NA	Solid	8021B	101450
880-53766-5	SW-2 (2')	Total/NA	Solid	8021B	101450
880-53766-6	SW-3 (2')	Total/NA	Solid	8021B	101450
880-53766-7	SW-4 (2')	Total/NA	Solid	8021B	101450
MB 880-101378/5-A	Method Blank	Total/NA	Solid	8021B	101378
MB 880-101450/5-A	Method Blank	Total/NA	Solid	8021B	101450
LCS 880-101450/1-A	Lab Control Sample	Total/NA	Solid	8021B	101450
LCSD 880-101450/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101450
880-53766-1 MS	CS-1 (2')	Total/NA	Solid	8021B	101450
880-53766-1 MSD	CS-1 (2')	Total/NA	Solid	8021B	101450

Prep Batch: 101450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-1	CS-1 (2')	Total/NA	Solid	5035	
880-53766-2	CS-2 (2')	Total/NA	Solid	5035	
880-53766-3	CS-3 (2')	Total/NA	Solid	5035	
880-53766-4	SW-1 (2')	Total/NA	Solid	5035	
880-53766-5	SW-2 (2')	Total/NA	Solid	5035	
880-53766-6	SW-3 (2')	Total/NA	Solid	5035	
880-53766-7	SW-4 (2')	Total/NA	Solid	5035	
MB 880-101450/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101450/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101450/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53766-1 MS	CS-1 (2')	Total/NA	Solid	5035	
880-53766-1 MSD	CS-1 (2')	Total/NA	Solid	5035	

Analysis Batch: 101626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-1	CS-1 (2')	Total/NA	Solid	Total BTEX	
880-53766-2	CS-2 (2')	Total/NA	Solid	Total BTEX	
880-53766-3	CS-3 (2')	Total/NA	Solid	Total BTEX	
880-53766-4	SW-1 (2')	Total/NA	Solid	Total BTEX	
880-53766-5	SW-2 (2')	Total/NA	Solid	Total BTEX	
880-53766-6	SW-3 (2')	Total/NA	Solid	Total BTEX	
880-53766-7	SW-4 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-1	CS-1 (2')	Total/NA	Solid	8015NM Prep	
880-53766-2	CS-2 (2')	Total/NA	Solid	8015NM Prep	
880-53766-3	CS-3 (2')	Total/NA	Solid	8015NM Prep	
880-53766-4	SW-1 (2')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 101451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-5	SW-2 (2')	Total/NA	Solid	8015NM Prep	
880-53766-6	SW-3 (2')	Total/NA	Solid	8015NM Prep	
880-53766-7	SW-4 (2')	Total/NA	Solid	8015NM Prep	
MB 880-101451/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101451/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53762-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-53762-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-1	CS-1 (2')	Total/NA	Solid	8015B NM	101451
880-53766-2	CS-2 (2')	Total/NA	Solid	8015B NM	101451
880-53766-3	CS-3 (2')	Total/NA	Solid	8015B NM	101451
880-53766-4	SW-1 (2')	Total/NA	Solid	8015B NM	101451
880-53766-5	SW-2 (2')	Total/NA	Solid	8015B NM	101451
880-53766-6	SW-3 (2')	Total/NA	Solid	8015B NM	101451
880-53766-7	SW-4 (2')	Total/NA	Solid	8015B NM	101451
MB 880-101451/1-A	Method Blank	Total/NA	Solid	8015B NM	101451
LCS 880-101451/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101451
LCSD 880-101451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101451
880-53762-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	101451
880-53762-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	101451

Analysis Batch: 101596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-1	CS-1 (2')	Total/NA	Solid	8015 NM	
880-53766-2	CS-2 (2')	Total/NA	Solid	8015 NM	
880-53766-3	CS-3 (2')	Total/NA	Solid	8015 NM	
880-53766-4	SW-1 (2')	Total/NA	Solid	8015 NM	
880-53766-5	SW-2 (2')	Total/NA	Solid	8015 NM	
880-53766-6	SW-3 (2')	Total/NA	Solid	8015 NM	
880-53766-7	SW-4 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 101447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-1	CS-1 (2')	Soluble	Solid	DI Leach	
880-53766-2	CS-2 (2')	Soluble	Solid	DI Leach	
880-53766-3	CS-3 (2')	Soluble	Solid	DI Leach	
880-53766-4	SW-1 (2')	Soluble	Solid	DI Leach	
880-53766-5	SW-2 (2')	Soluble	Solid	DI Leach	
880-53766-6	SW-3 (2')	Soluble	Solid	DI Leach	
880-53766-7	SW-4 (2')	Soluble	Solid	DI Leach	
MB 880-101447/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101447/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101447/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53763-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-53763-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 101465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53766-1	CS-1 (2')	Soluble	Solid	300.0	101447
880-53766-2	CS-2 (2')	Soluble	Solid	300.0	101447
880-53766-3	CS-3 (2')	Soluble	Solid	300.0	101447
880-53766-4	SW-1 (2')	Soluble	Solid	300.0	101447
880-53766-5	SW-2 (2')	Soluble	Solid	300.0	101447
880-53766-6	SW-3 (2')	Soluble	Solid	300.0	101447
880-53766-7	SW-4 (2')	Soluble	Solid	300.0	101447
MB 880-101447/1-A	Method Blank	Soluble	Solid	300.0	101447
LCS 880-101447/2-A	Lab Control Sample	Soluble	Solid	300.0	101447
LCSD 880-101447/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101447
880-53763-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	101447
880-53763-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	101447

Lab Chronicle

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2')

Lab Sample ID: 880-53766-1

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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	101450	01/29/25 13:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/29/25 22:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101626	01/29/25 22:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101596	01/29/25 17:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101451	01/29/25 09:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101491	01/29/25 17:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101447	01/29/25 09:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101465	01/29/25 19:01	CH	EET MID

Client Sample ID: CS-2 (2')

Lab Sample ID: 880-53766-2

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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	101450	01/29/25 13:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/29/25 23:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101626	01/29/25 23:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101596	01/29/25 17:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101451	01/29/25 09:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101491	01/29/25 17:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101447	01/29/25 09:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101465	01/29/25 19:19	CH	EET MID

Client Sample ID: CS-3 (2')

Lab Sample ID: 880-53766-3

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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	101450	01/29/25 13:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/29/25 23:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101626	01/29/25 23:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101596	01/29/25 17:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101451	01/29/25 09:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101491	01/29/25 17:33	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101447	01/29/25 09:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101465	01/29/25 19:25	CH	EET MID

Client Sample ID: SW-1 (2')

Lab Sample ID: 880-53766-4

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	101450	01/29/25 13:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/29/25 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101626	01/29/25 23:42	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (2')

Lab Sample ID: 880-53766-4

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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			101596	01/29/25 17:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101451	01/29/25 09:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101491	01/29/25 17:49	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	101447	01/29/25 09:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101465	01/29/25 19:31	CH	EET MID

Client Sample ID: SW-2 (2')

Lab Sample ID: 880-53766-5

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	101450	01/29/25 13:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 00:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101626	01/30/25 00:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101596	01/29/25 18:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101451	01/29/25 09:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101491	01/29/25 18:04	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	101447	01/29/25 09:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101465	01/29/25 19:37	CH	EET MID

Client Sample ID: SW-3 (2')

Lab Sample ID: 880-53766-6

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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	101450	01/29/25 13:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 00:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101626	01/30/25 00:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101596	01/29/25 18:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101451	01/29/25 09:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101491	01/29/25 18:19	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	101447	01/29/25 09:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101465	01/29/25 19:43	CH	EET MID

Client Sample ID: SW-4 (2')

Lab Sample ID: 880-53766-7

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	101450	01/29/25 13:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101626	01/30/25 00:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101596	01/29/25 18:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101451	01/29/25 09:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101491	01/29/25 18:34	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (2')
Date Collected: 01/27/25 00:00
Date Received: 01/29/25 08:35

Lab Sample ID: 880-53766-7
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			5.04 g	50 mL	101447	01/29/25 09:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101465	01/29/25 19:49	CH	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53766-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53766-1	CS-1 (2')	Solid	01/27/25 00:00	01/29/25 08:35
880-53766-2	CS-2 (2')	Solid	01/27/25 00:00	01/29/25 08:35
880-53766-3	CS-3 (2')	Solid	01/27/25 00:00	01/29/25 08:35
880-53766-4	SW-1 (2')	Solid	01/27/25 00:00	01/29/25 08:35
880-53766-5	SW-2 (2')	Solid	01/27/25 00:00	01/29/25 08:35
880-53766-6	SW-3 (2')	Solid	01/27/25 00:00	01/29/25 08:35
880-53766-7	SW-4 (2')	Solid	01/27/25 00:00	01/29/25 08:35



Chain of Custody



880-53766 Chain of Custody

Page 1 of 1

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

Project Name: Blue Thunder 5 Fed 6H (12.16.24)		Turn Around		Pres. Code	
Project Number: 2610		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location: Eddy County, New Mexico		Due Date: 48 HR			
Sampler's Name: CRM					
PO #:					

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments	
							Temp Blank:	Thermometer ID:	Correction Factor:		
CS-1 (2')	1/27/2025		X		C	1				None: NO	
CS-2 (2')	1/27/2025		X		C	1				DI Water: H ₂ O	
CS-3 (2')	1/27/2025		X		C	1				Cool: Cool	
SW-1 (2')	1/27/2025		X		C	1				HCL: HC	
SW-2 (2')	1/27/2025		X		C	1				H ₂ SO ₄ : H ₂	
SW-3 (2')	1/27/2025		X		C	1				H ₃ PO ₄ : HP	
SW-4 (2')	1/27/2025		X		C	1				NaHSO ₄ : NABIS	
										Na ₂ S ₂ O ₃ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SAPC	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-53766-1
SDG Number: Eddy County, New Mexico

Login Number: 53766

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/30/2025 12:18:55 PM

JOB DESCRIPTION

Blue Thunder 5 Fed 6H (12.16.24)
Eddy County, New Mexico

JOB NUMBER

880-53762-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
1/30/2025 12:18:55 PM

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

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Laboratory Job ID: 880-53762-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-53762-1

Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1

Job ID: 880-53762-1

Eurofins Midland

Job Narrative 880-53762-1

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 1/29/2025 8:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.8°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: Backfill Sample (880-53762-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101451 and analytical batch 880-101491 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101451 and analytical batch 880-101491 was outside the upper control limits.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

Client Sample ID: Backfill Sample

Lab Sample ID: 880-53762-1

Date Collected: 01/27/25 00:00

Matrix: Solid

Date Received: 01/29/25 08:35

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		01/29/25 09:11	01/29/25 13:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/25 09:11	01/29/25 13:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/25 09:11	01/29/25 13:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/25 09:11	01/29/25 13:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/25 09:11	01/29/25 13:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/25 09:11	01/29/25 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/29/25 09:11	01/29/25 13:32	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/29/25 09:11	01/29/25 13:32	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			01/29/25 13:32	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			01/29/25 12:54	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 F1	49.9		mg/Kg		01/29/25 09:27	01/29/25 12:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		01/29/25 09:27	01/29/25 12:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/29/25 09:27	01/29/25 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	01/29/25 09:27	01/29/25 12:54	1
o-Terphenyl	99		70 - 130	01/29/25 09:27	01/29/25 12:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.0		9.98		mg/Kg			01/29/25 17:15	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-53762-1	Backfill Sample	103	96
890-7606-A-16-C MS	Matrix Spike	97	102
890-7606-A-16-D MSD	Matrix Spike Duplicate	96	102
LCS 880-101428/1-A	Lab Control Sample	98	100
LCSD 880-101428/2-A	Lab Control Sample Dup	109	100
MB 880-101428/5-A	Method Blank	90	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53762-1	Backfill Sample	119	99
880-53762-1 MS	Backfill Sample	117	110
880-53762-1 MSD	Backfill Sample	120	115
LCS 880-101451/2-A	Lab Control Sample	126	118
LCSD 880-101451/3-A	Lab Control Sample Dup	129	123
MB 880-101451/1-A	Method Blank	147 S1+	120
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101428/5-A

Matrix: Solid

Analysis Batch: 101434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/25 08:16	01/29/25 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/25 08:16	01/29/25 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/25 08:16	01/29/25 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/25 08:16	01/29/25 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/25 08:16	01/29/25 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/25 08:16	01/29/25 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/29/25 08:16	01/29/25 11:28	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/29/25 08:16	01/29/25 11:28	1

Lab Sample ID: LCS 880-101428/1-A

Matrix: Solid

Analysis Batch: 101434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1039		mg/Kg		104	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.1947		mg/Kg		97	70 - 130
o-Xylene	0.100	0.1092		mg/Kg		109	70 - 130

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

Lab Sample ID: LCSD 880-101428/2-A

Matrix: Solid

Analysis Batch: 101434

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1072		mg/Kg		107	70 - 130	3	35
Toluene	0.100	0.1127		mg/Kg		113	70 - 130	4	35
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2028		mg/Kg		101	70 - 130	4	35
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7606-A-16-C MS

Matrix: Solid

Analysis Batch: 101434

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1025		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.1049		mg/Kg		105	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-7606-A-16-C MS

Matrix: Solid

Analysis Batch: 101434

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1038		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1847		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.1017		mg/Kg		102	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	97		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 890-7606-A-16-D MSD

Matrix: Solid

Analysis Batch: 101434

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 101428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1056		mg/Kg		106	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.1070		mg/Kg		107	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.1071		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1913		mg/Kg		96	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.1042		mg/Kg		104	70 - 130	2	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-101451/1-A

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101451

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		01/29/25 09:27	01/29/25 07:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/29/25 09:27	01/29/25 07:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/29/25 09:27	01/29/25 07:56	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				01/29/25 09:27	01/29/25 07:56	1
o-Terphenyl	120		70 - 130				01/29/25 09:27	01/29/25 07:56	1

Lab Sample ID: LCS 880-101451/2-A

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1092		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-101451/2-A

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101451

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-101451/3-A

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101451

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1141		mg/Kg		114	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: 880-53762-1 MS

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Backfill Sample

Prep Type: Total/NA

Prep Batch: 101451

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 F1	998	1340	F1	mg/Kg		134	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1394	F1	mg/Kg		140	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-53762-1 MSD

Matrix: Solid

Analysis Batch: 101491

Client Sample ID: Backfill Sample

Prep Type: Total/NA

Prep Batch: 101451

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 F1	998	1368	F1	mg/Kg		137	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1466	F1	mg/Kg		147	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	115		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101447/1-A
Matrix: Solid
Analysis Batch: 101465

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			01/29/25 16:58	1

Lab Sample ID: LCS 880-101447/2-A
Matrix: Solid
Analysis Batch: 101465

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-101447/3-A
Matrix: Solid
Analysis Batch: 101465

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	251.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-53762-1 MS
Matrix: Solid
Analysis Batch: 101465

Client Sample ID: Backfill Sample
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	24.0		250	287.7		mg/Kg		106	90 - 110

Lab Sample ID: 880-53762-1 MSD
Matrix: Solid
Analysis Batch: 101465

Client Sample ID: Backfill Sample
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	24.0		250	288.9		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 101428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1	Backfill Sample	Total/NA	Solid	5035	
MB 880-101428/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101428/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101428/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7606-A-16-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7606-A-16-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 101434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1	Backfill Sample	Total/NA	Solid	8021B	101428
MB 880-101428/5-A	Method Blank	Total/NA	Solid	8021B	101428
LCS 880-101428/1-A	Lab Control Sample	Total/NA	Solid	8021B	101428
LCSD 880-101428/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101428
890-7606-A-16-C MS	Matrix Spike	Total/NA	Solid	8021B	101428
890-7606-A-16-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	101428

Analysis Batch: 101513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1	Backfill Sample	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1	Backfill Sample	Total/NA	Solid	8015NM Prep	
MB 880-101451/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101451/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53762-1 MS	Backfill Sample	Total/NA	Solid	8015NM Prep	
880-53762-1 MSD	Backfill Sample	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1	Backfill Sample	Total/NA	Solid	8015B NM	101451
MB 880-101451/1-A	Method Blank	Total/NA	Solid	8015B NM	101451
LCS 880-101451/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101451
LCSD 880-101451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101451
880-53762-1 MS	Backfill Sample	Total/NA	Solid	8015B NM	101451
880-53762-1 MSD	Backfill Sample	Total/NA	Solid	8015B NM	101451

Analysis Batch: 101593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1	Backfill Sample	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 101447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1	Backfill Sample	Soluble	Solid	DI Leach	
MB 880-101447/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101447/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101447/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 101447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1 MS	Backfill Sample	Soluble	Solid	DI Leach	
880-53762-1 MSD	Backfill Sample	Soluble	Solid	DI Leach	

Analysis Batch: 101465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53762-1	Backfill Sample	Soluble	Solid	300.0	101447
MB 880-101447/1-A	Method Blank	Soluble	Solid	300.0	101447
LCS 880-101447/2-A	Lab Control Sample	Soluble	Solid	300.0	101447
LCSD 880-101447/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101447
880-53762-1 MS	Backfill Sample	Soluble	Solid	300.0	101447
880-53762-1 MSD	Backfill Sample	Soluble	Solid	300.0	101447

Lab Chronicle

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

Client Sample ID: Backfill Sample
Date Collected: 01/27/25 00:00
Date Received: 01/29/25 08:35

Lab Sample ID: 880-53762-1
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			4.97 g	5 mL	101428	01/29/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101434	01/29/25 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101513	01/29/25 13:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101593	01/29/25 12:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101451	01/29/25 09:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101491	01/29/25 12:54	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101447	01/29/25 09:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101465	01/29/25 17:15	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
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Blue Thunder 5 Fed 6H (12.16.24)

Job ID: 880-53762-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53762-1	Backfill Sample	Solid	01/27/25 00:00	01/29/25 08:35

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

Chain of Custody



880-53762 Chain of Custody

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

Work Order Comments

Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐



State of Project:

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

Deliverables: EDD ☐ ADAPT ☐ Other: _____

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			1/24/83

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-53762-1
SDG Number: Eddy County, New Mexico

Login Number: 53762

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	

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 444135

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2435256342
Incident Name	NAPP2435256342 BLUE THUNDER 5 FEDERAL COM 6H @ 30-015-41614
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-41614] BLUE THUNDER 5 FEDERAL COM #006H

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

Site Name	Blue Thunder 5 Federal Com 6H
Date Release Discovered	12/16/2024
Surface Owner	Federal

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

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

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

Crude Oil Released (bbls) Details	Cause: Fire Other (Specify) Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Fire Other (Specify) Produced Water Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 444135

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/09/2025
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QUESTIONS, Page 3

Action 444135

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	109
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1060
GRO+DRO (EPA SW-846 Method 8015M)	1060
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/24/2025
On what date will (or did) the final sampling or liner inspection occur	01/27/2025
On what date will (or was) the remediation complete(d)	01/30/2025
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	525
What is the estimated volume (in cubic yards) that will be remediated	45
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 444135

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	444135
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/20/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 444135

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 444135

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	423767
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/27/2025
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	525

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	525
What was the total volume (cubic yards) remediated	45
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	na
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/20/2025

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Action 444135

QUESTIONS (continued)

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

QUESTIONS

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

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CONDITIONS

Action 444135

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 444135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2435256342 BLUE THUNDER 5 FEDERAL COM 6H, thank you. This Remediation Closure Report is approved.	3/20/2025