

SITE INFORMATION

Closure Report Tar Heel 19-18-7 Federal Com 5H Incident ID: nAPP2424334807 Eddy County, New Mexico Unit N Sec 29 T26S R30E 32.006178°, -103.907038°

Drilling Mud/Fluid Release Point of Release: Dump trailer seal failed while driving Release Date: 08.30.2024 Volume Released: 72 Barrels of Drilling Mud/Fluid Volume Recovered: 72 Barrels of Drilling Mud/Fluid

CARMONA RESOURCES

Prepared for: Cimarex Energy Co. 6001 Deauville Blvd. Suite 300N Midland, Texas 79706

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

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



TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1 OVERVIEW

FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION

FIGURE 4 EXCAVATION

APPENDICES

APPENDIX A TABLES

APPENDIX B PHOTOS

APPENDIX C NMOCD CORRESPONDENCE

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS

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



March 20, 2025

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

Re: Closure Report Tar Heel 19-18-7 Federal Com 5H (8.30.2024) Incident ID: nAPP2424334807 Cimarex Energy Co. Site Location: Unit N, S29, T26S, R30E (Lat 32.006178°, Long -103.907038°) Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site assessment and remediation activities for the Tar Heel 19-18-7 Federal Com 5H release. The site is located at 32.006178°, -103.907038° within Unit N, S29, T26S, R30E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on August 30, 2024, due to the seal failing on an end dump trailer filled with oil-based drill cuttings and spilling on a roadway. It resulted in approximately seventy-two (72) barrels of drilling mud/fluid being released with approximately seventy-two (72) barrels of drilling mud/fluid recovered. The spill boundaries are shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a 0.50-mile radius of the location. The nearest water source is in Texas, approximately 0.45 miles South of the site at GPS 31.999942°, -103.899683° and was drilled in 2023. The well has a reported depth to groundwater of 117.3 feet below the ground surface (ft bgs). A copy of the 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 were utilized in assessing and remediating the site.

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

4.0 Site Assessment Activities

Initial Assessment

On December 18, 2025, Carmona Resources personnel performed site assessment activities to evaluate soil impacts stemming from the release. A total of eight (8) sample points (S-1 through S-8) and eight (8) horizontal samples (H-1 through H-8) were installed to total depths ranging from surface to 1" bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Labs in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and Chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved for all areas except for S-6 and S-8 due to dense geological formations along the roadway. Refer to Table 1.

Horizontal Delineation

Horizontal delineation was achieved in the areas of H-1 through H-8. Refer to Table 1.

Variance

Background samples collected from the East and West ends of the spill area confirmed a naturally high presence of chlorides along the roadway. Based on these findings, it was concluded that the excavation would be solely focused within the areas of S-6 and S-8 until TPH concentrations are below 100 mg/kg. The email correspondence requesting the variance can be found in Appendix C. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. Refer to Table 1 for the Background Sample results. See Figure 3 for the sample locations.

5.0 Remediation Activities

On March 13, 2025, Carmona Resources personnel were onsite to guide the remediation activities and collect confirmation samples. Before collecting confirmation samples, the NMOCD division office was notified via NMOCD portal on March 11, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of S-6 and S-8 were excavated to a depth of 2" - 3" bgs to ensure the removal of all impacted material. Due to the extent of the remediation, the utilization of a grab sample plan was applied per 19.15.29.12.D.1.B NMAC. The email correspondence requesting the variance can be found in Appendix C. A total of eight (8) confirmation grab samples (CS-1 through CS-8) were collected to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory requirements for Benzene, total BTEX, and TPH concentrations. Refer to Table 2.

Approximately 1,580 square feet of contamination was remediated, resulting in 20 cubic yards of material excavated and transported offsite for proper disposal.



6.0 Conclusions

Based on the assessment and analytical data from the remediation, no further actions are required at the site. Cimarex formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-8988.

Sincerely, Carmona Resources, LLC

Ashton Thielke Environmental Manager

- 10.

Gilbert Priego Project Manager

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

.













APPENDIX A



.

Table 1 Cimarex Energy Co. of Colorado Tar Heel 19-18-7 Federeal Com 5H (8.30.2024) Eddy County, New Mexico

Comula ID	Date	Douth (in)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (in)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-1	12/18/2024	0-1"	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,080
S-2	12/18/2024	0-1"	<48.3	<48.3	<48.3	<48.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,180
S-3	12/18/2024	0-1"	<48.4	<48.4	<48.4	<48.4	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,140
S-4	12/18/2024	0-1"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,230
S-5	12/18/2024	0-1"	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	530
S-6	12/18/2024	0-1"	<49.8	365	<49.8	365	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,830
S- 7	12/18/2024	0-1"	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,870
S-8	12/18/2024	0-1"	<50.0	1,130	<50.0	1,130	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,930
H-1	12/18/2024	0-1"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	96.8
H-2	12/18/2024	0-1"	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	37.7
H-3	12/18/2024	0-1"	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	28.0
H-4	12/18/2024	0-1"	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	32.4
H-5	12/18/2024	0-1"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	40.7
H-6	12/18/2024	0-1"	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	21.7
H-7	12/18/2024	0-1"	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	110
H-8	12/18/2024	0-1"	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	50.2
Eastern Background	1/15/2025	0-1"	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,760
Western Background	1/15/2025	0-1"	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,470
	ry Criteria ^A Analyzed					100 mg/kg	10 mg/kg				50 mg/kg	-

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

in - Inch

(S) Sample Point

(H) Horizontal Sample

Removed

.

Table 2 Cimarex Energy Co. of Colorado Tar Heel 19-18-7 Federeal Com 5H (8.30.2024) Eddy County, New Mexico

				TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (in)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	3/13/2025	2"-3"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	288
CS-2	3/13/2025	2"-3"	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00403	1250
CS-3	3/13/2025	2"-3"	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00401	2650
CS-4	3/13/2025	2"-3"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00399	2130
CS-5	3/13/2025	2"-3"	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00402	953
CS-6	3/13/2025	2"-3"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00400	673
CS-7	3/13/2025	2"-3"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	0.00310	<0.00398	1880
CS-8	3/13/2025	2"-3"	<49.8	97.8	<49.8	97.8	<0.00201	0.00573	<0.00201	0.00283	0.00856	1940
	ry Criteria ^A					100 mg/kg	10 mg/kg				50 mg/kg	-

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

in - Inch

(CS) - Confirmation Sample

APPENDIX B



Received by OCD: 3/20/2025 12:03:26 PM

PHOTOGRAPHIC LOG

Cimarex Energy Co.



Received by OCD: 3/20/2025 12:03:26 PM

PHOTOGRAPHIC LOG

Cimarex Energy Co.



Tar Heel 19-18-7 Federal Com 5H



APPENDIX C



Received by OCD: 3/20/2025/12:03826/PM



CIMAREX ENERGY State Line Road EDDY, NM

SHIPPING CONTROL TICKET For Shipment of Non-Hazardous Oilfield Waste www.milestone-es.com
Part 1: TO BE COMPLETED BY GENERATOR
Generator Name: Coterra Generator Phone No:
Generator Rep Email:
ORIGIN OF WASTE:
Lease Name: Tar heel 19-18-7 fed Com Well No: 5H
Rig Name/No: Unit boss 405 APVAFE No: 30-015-54940
County: Eddy Destination Company: Milestone Environmental Services, LLC
GENERATOR REP CERTIFICATION: I CERTIFY THAT THE FOREGOING IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.
Sometice of Generator Rep ((601) 507-0779 Printed Name of Generator Rep Phone Number of Generator Rep
Part 2: WASTE TYPE - TO BE COMPLETED BY GENERATOR Washout: Yes XNo. TOTAL VOLUME: XYards
Washout Tes ANO TOTAL VOLUME: 16 Bbis
SOLIDS, CEMENTS, AND GELS (LANDFILL FACILITIES ONLY):
Xonil Cuttings Contaminated Soli Cement-contaminated Fluid Prac Gel-contaminated Fluid
LIQUID WASTES:
Tank Bottoms Flowback - Clean (<1% solids) Produced Saltwater - Dirty (>1% solids)
Oti-based Mud/Pit Waste Fines/Solids Flowback - Dirty (>1% solids) Fresh Water - Clean (<1% solids) Water-based Mud/Pit Waste Oby Dirty Water Produced Saltwater - Clean (<1% solids) Fresh Water - Dirty (>1% solids)
Part 3: TO BE COMPLETED BY TRANSPORTER
Transporter Name: JES Transporter Phone No: 575-396-7430
Maiing Address: Lovington
Location of Load Pick-up: Eddy WHP Permit No: 7275
Trucking Ticket No: 224109 Truck No: 250 Trailer No: 250
THE FOLLOWING STATEMENT MUST BE SIGNED BY TRUCK DRIVER PRIOR TO UNLOADING AT DISPOSAL SITE
CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS TRUCK SINCE LOADING OF THE MATERIAL DESCRIBED IN PART 2 ABOVE
08/29/24 3:03 XPM Javier Ochoa M.
Date and Time Received Driver Signature
Part 4: TO BE COMPLETED BY DISPOSAL FACILITY
CERTIFICATION: THIS IS TO CERTIFY THAT THE ABOVE DESCRIBED WASTE HAS BEEN DISPOSED OF IN AN AUTHORIZED
-Date and Time Received 12.:27 OPM Washout /Yes ONo
Sugnations of Receiver W/O approved by Ben via
Joseph S There
Printed Name of Receiver
14-093829 Disposal Ticket No 54280 DCF
COSP-6819 Original - Missione Environmental Services Yellow - Generator Pink - Transporter

Released to Imaging: 6/4/2025 10:46:07/AM

Received by OCD: 3/20/2025/12008826/PM



CIMAREX ENERGY State Line Road EDDY, NM

INITIAL RELEASE





© 270°W (T) ● 32°0'21"N, 103°54'15"W ±22ft ▲ 3024ft



Received by OCD: 3/20/2025/12008826/PM



CIMAREX ENERGY State Line Road EDDY, NM

INITIAL RELEASE









CIMAREX ENERGY State Line Road EDDY, NM

POST SURFACE SCRAPE





Received by OCD: 3/20/2025/12008826/PM



CIMAREX ENERGY State Line Road EDDY, NM

POST SURFACE SCRAPE







CIMAREX ENERGY State Line Road EDDY, NM

POST SURFACE SCRAPE



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

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

District III

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

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

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

QUESTIONS

Page 24 of 164

Action 379515

QUESTIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	379515
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424334807
Incident Name	NAPP2424334807 TAR HEEL 19-18-7 FEDERAL COM 5H @ 0
Incident Type	Other
Incident Status	Initial C-141 Received

Location of Release Source

Please answer all the questions in this group.		
Site Name	TAR HEEL 19-18-7 FEDERAL COM 5H	
Date Release Discovered	08/30/2024	
Surface Owner	Federal	

Incident Details

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

Nature and Volume of Release

Nature and volume of Release				
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Not answered.			
Is the concentration of chloride in the produced water >10,000 mg/l	No			
Condensate Released (bbls) Details	Not answered.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Cause: Equipment Failure Transport Drilling Mud/Fluid Released: 72 BBL Recovered: 72 BBL Lost: 0 BBL.			
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	We had a reportable release along State Line Road in Eddy County, NM. A J.E.S. Energy truck was hauling oil based drill cuttings from Cimarex Energy's Tar Heel 19-18-7 Federal Com 5H to Milestone Environmental Landfill in Orla, TX. Approximately 30 minutes after leaving location, the seal on the J.E.S. Energy end dump trailer failed while driving down State Line Road towards C-1. Once the driver saw the trail of cuttings on the lease road, he stopped and reported the incident to his Supervisor. The total length of the release is 0.30 miles. An emergency One-Call was placed for the area and a crew was dispatched to the site to remove the cuttings and surface scrape impacted area of the road. All scraped up cuttings and impacted soils were hauled to Milestone Environmental Landfill for disposal. Released: 72 bbls Oil Based Mud Cuttings Recovered: 72 bbls			

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

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

District III

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

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

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

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	379515
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Initial Response

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.		

The responsible party must undertake the following actions immediately unless they could create a s	afety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation 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 QCD 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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 09/06/2024
--	---

QUESTIONS, Page 2

Action 379515

Page 25 & f 164

ico			

District I

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

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

District III

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

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

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

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	379515
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date. What is the shallowest depth to groundwater beneath the area affected by the Not answered.

release in feet below ground surface (ft bgs)	Not unsword.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission

No The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

QUESTIONS, Page 3

Action 379515

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	379515
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By		Condition Date
scott.rodgers	None	9/9/2024

Page 27/of 164

Action 379515

Received by OCD: 3/20/2025 12:03:26 PM

Ashton Thielke

From:	Rodgers, Scott, EMNRD <scott.rodgers@emnrd.nm.gov></scott.rodgers@emnrd.nm.gov>
Sent:	Monday, February 10, 2025 12:46 PM
То:	Ashton Thielke; Bratcher, Michael, EMNRD
Cc:	Nathaniel Rose; Laci Luig
Subject:	RE: [EXTERNAL] Cimarex - nAPP2424334807 - Tar Heel 19-18-7 Federal Com 5H
,	(8.29.2024) - Variance & Extension Request

The sampling variance request for 19.15.29.12.D.1.B of the NMAC is approved.

Your time extension request is approved. Remediation Due date has been updated to May 12, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards, Scott

Scott Rodgers • Environmental Specialist – Adv. Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland NE, Suite B | Albuquerque, NM 87113 505.469.1830 | <u>scott.rodgers@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd



From: Ashton Thielke <ThielkeA@carmonaresources.com>

Sent: Monday, February 10, 2025 10:14 AM

To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>

Cc: Nathaniel Rose <Nathaniel.Rose@coterra.com>; Laci Luig <Laci.Luig@coterra.com>

Subject: [EXTERNAL] Cimarex - nAPP2424334807 - Tar Heel 19-18-7 Federal Com 5H (8.29.2024) - Variance & Extension Request

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

Good morning Mr. Bratcher & Mr. Rogers,

Received by OCD: 3/20/2025 12:03:26 PM

Thank you for meeting with myself and Cimarex EHS staff this morning.

Based off of our meeting, we have concluded that we will remediate/excavate the areas of both S-6 & S-8 and that all other areas that exceed NMAC 19.15.29.12 standards for chloride have been proven to be naturally "high" along the roadway. This has been proven by the collection of background samples both east and west of the spill extents on the roadway.

We will remediate/excavate the areas of S-6 & S-8 until TPH concentrations are <100mg/kg. On behalf of Cimarex, I would like to request a variance to the traditional composite confirmation portion of the

19.15.29.12 NMAC and to utilize 19.15.29.12.D.1.B of the NMAC to request the utilization of grab samples, in which I would recommend the collection of 6-7 grab samples, 1 sample to represent no more than 50ft or horizontal roadway.

I would also like to request a 90-day extension and will have a closure report to the NMOCD no later than May 12, 2025.

Let me know if you have any questions!

Thanks!

Ashton Thielke Environmental Manager 310 West Wall Street, Suite 500 Midland TX, 79701 M: 432-813-8988 C: 281-753-5659 ThielkeA@carmonaresources.com Environmental Consulting Firm - Carmona Resources

CARMONA RESOURCES

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

Page 30:0f 164

Action 441111

QUESTIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	441111
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424334807
Incident Name	NAPP2424334807 TAR HEEL 19-18-7 FEDERAL COM 5H @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	TAR HEEL 19-18-7 FEDERAL COM 5H
Date Release Discovered	08/30/2024
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,200
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	03/13/2025
Time sampling will commence	11:00 AM
Please provide any information necessary for observers to contact samplers	Due to unforeseen circumstances, this project has been pushed back to Thursday. Grab Sampling has been discussed and approved by NMOCD during preplanning discussions. We will collect grab samples of the roadway area following a surface scrape. The areas of S6 & S8 (from the initial assessment) will be scraped and disposed of properly.
Please provide any information necessary for navigation to sampling site	32.006178,103.907038 Carmona Resources will be onsite 4328138988

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

General Information Phone: (505) 629-6116

CONDITIONS

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

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

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	441111
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
athielke	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.	3/11/2025

CONDITIONS

Action 441111

Page 6

Oil Conservation Division

	Page 32 of 164
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities 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. Printed Name: _____ Title: _____ Signature: Date: Telephone: email: **OCD Only** Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:	Date:
Printed Name:	Title:

APPENDIX D





55' GWDB - Drilled 2022

Western Extent O

Grar Heel 19-18-7 Federal COM 5H (08.30.2024)

117.3 Drilled 07.28.2023

Google Earth Released to Imaging: 6/4/2025 10:46:07 AM Inage @ 2024 Alraus

Legend Page 34 of 164 0.45 Miles 0.50 Mile Radius 0.90 Miles 1.23 Miles Groundwater Determination Bore Spill Area Texas - Monitoring Well

105" GWDB - Driled 2024

Ser.

N

Received by OCD: 3/20/2025 12:03:26 PM WEGIUM KARST

Cimarex Energy



GTAR HEEL 19-18-7 FEDERAL COM 5H (08.30.2024)

Google Earth Released to Imaging: 6/4/2025 10:46:07 AM

🥖 Medium

• TAR HEEL 19-18-7 FEDERAL COM 5H (08.30.2024)





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

(A CLW##### in (R=POD has the POD suffix indicates been the POD has been replaced, replaced O=orphaned, & no longer serves a C=the file is (quarters are water right file.) closed) smallest to largest) (meters) (In feet) Well Depth Water Sub Y **POD Number** Code basin **County Q64** Q16 Q4 Sec Tws Range X **Map Distance Depth** Water Column 605057.9 3541059.5 C 04802 POD1 CUB ED SE SE SW 33 26S 30E 1453 105 C 04625 POD1 CUB ED NW SW NE 28 26S 30E 605340.4 3542781.5 1972 55 C 04629 POD1 CUB ED SW SE 21 26S 30E 605381.1 3543462.2 < 2456 SE

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Page 36 of 164

Maximum Depth: 0 feet

Record Count: 3

<u>UTM Filters (in meters):</u>

Easting: 603727.39 Northing: 3541645.62 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.
STATE OF TEXAS WELL REPORT for Tracking #648729					
Owner:	XTO Energy Inc.	Owner Well #:	MW-D-1		
Address:	200 N. Loraine St. Midland, TX 79701	Grid #:	46-01-3		
Well Location:	XTO Stan 32	Latitude:	31° 59' 59.79" N		
Angeles, TX		Longitude:	103° 53' 58.86" W		
Well County:	Loving	Elevation:	No Data		
Type of Work:	New Well	Proposed Use:	Monitor		

Diameter (in.) Top Depth (ft.) Bottom Depth (ft.) Borehole: 0 100 17.5 100 9.875 240 **Drilling Method:** Air Rotary **Borehole Completion:** Filter Packed; Straight Wall Filter Material Top Depth (ft.) Bottom Depth (ft.) Size Filter Pack Intervals: 195 240 Sand 8/16 Description (number of sacks & material) Top Depth (ft.) Bottom Depth (ft.) Annular Seal Data: 0 100 Grout 77 Bags/Sacks 5 0 **Cement 13 Bags/Sacks** 5 195 **Bentonite 79 Bags/Sacks** Seal Method: Tremie Distance to Property Line (ft.): No Data Sealed By: Driller Distance to Septic Field or other concentrated contamination (ft.): No Data Distance to Septic Tank (ft.): No Data Method of Verification: No Data Surface Completion: **Surface Slab Installed** Surface Completion by Driller Water Level: 117.3 ft. below land surface on 2023-07-Measurement Method: Water Level Meter 28 Packers: No Data Type of Pump: No Data Well Tests: **No Test Data Specified**

12/2/2024 9:34:52 AM

	Strata Depth (ft.)	Water Type		
Water Quality:	117.3 - 240	Sweet		
		Chemical Analysis N	lade: No	
	Did the driller	knowingly penetrate any strata w contained injurious constitue		
Certification Data:	driller's direct superv correct. The driller u	nat the driller drilled this well (or the driller drilled this well (or the ision) and that each and all of the nderstood that failure to complete sturned for completion and resubr	e statements her the required ite	ein are true and
Company Information:	White Drilling Con	npany, Inc.		
	P.O. Box 906 Clyde, TX 79510			
Driller Name:	William B. Atkins	Lice	ense Number:	54977
Comments:	No Data			

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	13	Sand w/clayey sand
13	23	Light brown sand/sandstone
23	31	Brown sandstone
31	63	Yellow, brown and red brown clay
63	98	Red brown mudstone
98	100	Gypsum
100	130	Gypsum mixed w/brown silty sandy clay
130	149	Light tan brown gypsum
149	177	Red brown siltstone/mudstone
177	179	Gypsum
179	217	Red brown mudstone/siltstone
217	227	Red brown siltstone/sandstone
227	230	Red brown mudstone
230	235	Red brown mudstone w/gray nodules
235	240	Brown/red brown siltstone

Casing: BLANK PIPE & WELL SCREEN DATA

Dla (in.)	Туре	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6	Riser	New Plastic (PVC)	40	-2.7	200
10.75	Blank	New Steel		0	100
6	Screen	New Plastic (PVC)	40 0.032	200	240

Released to Imaging: 6/4/2025 10:46:07 AM

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

.

CARMO	ONA RESC							
						_		
Project Nan	ne:	Devon Clawhammer 33-28-21 412H				Date :	February 14th, 2024	
Project No.	: 3	2199				Sampler :	Ivan Ramos	
Location :	1	Eddy County, New Mexico	_					
Coordinate	s: :	32.00073, -103.88776	-			Driller :	H&R Enterprises, LLC	
Elevation :		2950 feet				Method :	Air Rotary	
	-		-					
					-			
Depth (ft.) WL	-	Soil Description	Lithology	Depth (ft.)	WL	Soil Des	scription	Lithology
° — —	(0') Tan poor	y cemented small to medium		50		(50') - Brownish red, poorly	comported clay with 20%	*******
		vel with 65% fine, silty, soft loose sand	0 0.	-		fines. Dry, no odor, no orga		
	• •	o organics (SW).	', ' .:]	-		,, , ,		
			**** *	Ť				
5		n, poorly cemented small to medium	0.1.0	55		(55') - Brown, poorly cemen		
T	• •	vel with 75% fine, silty, soft loose sand o organics (SW)	0 0.	" T		Dry, no odor, no organics (N	ML).	TE EDILE I LE
		o organios (OVV)	1.6.1	-				
			1,10%	-				
10	(10') - Red, poo	orly cemented small to medium	0.1.0"	<u></u>		(60') - Reddish-brown, poor	ly cemented small clayey	
10		ules with 90% fine, silty, soft loose		60		silt nodules with 95% fine, s	silty, soft clayey silt. Dry, no	
T	sand. Dry, no o	dor, no organics (SM)		T		odor, no organics (ML).		
			RHIDHK					
-+-	(15') - Reddish	brown, poorly cemented small		-		(CE) Deddieb brown neer		
15		ndstone nodules with 90% fine, silty,	- I N ISHA	65 🗕		(65') - Reddish-brown, poor silt nodules with 95% fine, s		******
		. Dry, no odor, no organics (SM).	IN RUN	-		odor, no organics (ML).	sity, sont diayey sint. Dry, ne	
			NUDUH	-				
ΤL			111111	T.				
20	· · ·	prown, poorly cemented small to	TIMEN	70		(70') - Brown, poorly cemen	ted, medium stiff, well	hininin
		unded gypsum nodules with 80% fine, sand. Dry, no odor, no organics (SM).		-		graded clay. Dry, no odor, n		111111
	Sitty, Soft 1003e	sand. Dry, no odor, no organics (Sivi).	KIBUU	-				())))))
			UNNP	-				///////
25		brown, poorly cemented small to	TU MAN	75		(75') - Brown, poorly cemen	ted small to medim clay	(//////
23		inded gypsum nodules with 80% fine,	471.40244	/5		nodules with 70% gray, silty	v soft sandy silt. Dry, no	1010101
	silty, soft loose	sand. Dry, no odor, no organics (SM).				odor, no organics (ML).		
			a chiarde de	-				
-+-	(30') - Brownist	n-red, poorly cemented small		+	1			
30		yey silt nodules with 90% fine, silty,		80 🗕		(80') - Brown, moderately co		1111111
	soft loose silty	clay. Dry, no odor, no organics (ML).		+		stiff clay. Dry, no odor, no o	rganics (CL).	
ΤL				T.				
								011111
35		n-red, poorly cemented small avey silt nodules with 90% fine, silty,		85		(85') - Brown, moderately ce	emented, brittle to medium	11111
		clay. Dry, no odor, no organics (ML).		4	1	stiff clay. Dry, no odor, no o		111111
	i i i i i i i i i i i i i i i i i i i	······································		+				111111
				+				///////
	(40') - Brownisł	n-red, poorly cemented small				(90') - Brown, poorly cemen	ted small to medium clay	111111
40		yey silt nodules with 70% fine, silty,	TRADUCTURE	90		nodules with 75% fine, silty		
_ ↓	soft loose silty	clay. Dry, no odor, no organics (ML).				no odor, no organics (ML).		
				+				
	(45') - Brownist	n-red, poorly cemented small		+	1	(95') - Brown, poorly cemen	ted small to medium close	*****
45 🗕		vyey silt nodules with 80% fine, silty,		95		nodules with 75% fine, silty,		
-+		clay. Dry, no odor, no organics (ML).		+		no odor, no organics (ML).		
				_ †				
ΤI				T		(105) - Light brown, poorly o	cemented clay nodules	
50				105		with 40% clayey silt. Dry, no	o odor, no organics (ML).	

Comments : (02/14/24) Boring terminated at 105' at 11:30 A.M. Mountain Time with no presence of groundwater or moisture. Received by OCD: 3/20/2025 12:03:26 PM



WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

DSE DIT AUG 8 2022 MIC:19

www.ose.state.nm.us

ION	OSE POD NO. (WELL NO.) WELL TAG ID NO. POD 1 (TW-1) N/A						OSE C-46	FILE NO(3 525	S).				
OCAT	WELL OWNER NAME(S) Devon Energy							PHONE (OPTIONAL) 575-748-1838					
GENERAL AND WELL LOCATION	WELL OWN 6488 7 Ri							CITY Arte:			STA' NM		ZIP
P P			D	EGREES	MINUTES	SECO	NDS	T					
ALA	WELL LOCATIO	LA	22 0 58.53 N						REQUIRED: ONE TEN	TH OF	A SECOND		
ER	(FROM GF	PS) LO	NGITUDE	103	53	4.4	54 W	* DA	TUM REC	QUIRED: WGS 84			
EN	DESCRIPTIO	ON RELATI	NG WELL LOCATION TO	O STREET ADD	RESS AND COMMON	JLANDM	ARKS - PLS	S (SEC	TION TO	WNSHIP RANGE) WE	IFRE A		
1.6	Description relating well location to street address and common landmarks – plss (section, township, range) where available WW SW NE Sec.28 T26S R30S NMPM												
	LICENSE NO).	NAME OF LICENSED	DRILLER						NAME OF WELL DE	ILLING	G COMPANY	
	124				Jackie D. Atkins							ng Associates, I	nc.
	DRILLING S 6/15/2		DRILLING ENDED 6/15/2022		Emporary Well	Г)	BORE HOI	LE DEP ±55	TH (FT)	DEPTH WATER FIR		COUNTERED (FT) 1/a	
z	COMPLETE	D WELL IS:	ARTESIAN	/ DRY HO	le 🗌 Shallo	W (UNCO	NFINED)			WATER LEVEL PLETED WELL r	/a	DATE STATIC 1 6/15/22, 1	
110	DRILLING F	LUID:	AIR	MUD	ADDITIV	ES – SPE	CIFY:		L				
RMA	OF 1012E, IT LEE DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY: DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: Hollow Stem Auger CHECK HERE IF PITLESS ADAPTER IS DEPTH (feet bgl) BORE HOLE CASING MATERIAL AND/OR GRADE CASING CASING WALL THICKNESS SLOT FROM TO DIAM (inches) (include each casing string, and note sections of screen) TYPE (add coupling diameter) CASING WALL THICKNESS SLOT 0 55 ±6.5 Boring-HSA Image: Comparison of the comparison of screen of the comparison												
NFC	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL AND	D/OR		ania		CASING		SING WALL	
GI	FROM	то	DIAM		GRADE		CONN	ASING NECTI		INSIDE DIAM.		HICKNESS	SLOT SIZE
SIN			(inches)	(include	(include each casing string, and TY			ΓYPE oling diameter)		(inches)		(inches)	(inches)
c CA	0	55	±6.5		Boring-HSA		(add coup		metery		-		
G&													
TIN													
RII													
2. D													
. 1	DEPTH	(feet bgl)	BORE HOLE		IST ANNULAR SE					AMOUNT		METHO	
IAI	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZE	-RANGE	E BY INTE	RVAL	-	(cubic feet)		PLACEM	ENT
TER													
MA'				_									_
AR													
ANNULAR MATERIAL													
ANF													
3.													
FOR	OSE INTER	NAL USE							WR-20	0 WELL RECORD	& LO	G (Version 01/28	3/2022)

TOR OBE INTERITAL OBE		WK-20 WEEL RECORD & LOO (Version 01/28/202
FILE NO. C - 04625	POD NO.	TRN NO. 726170
LOCATION 265. 30E. 28.1.3.2		WELL TAG ID NO. PAGE 1 OF

	DEPTH (1 FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATER ER-BEARING CAVIT oplemental sheets to t	TIES O	R FRAC	CTURE ZONE	s	WA' BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0 20 20 Sand, Fine-grained, poorly graded, 5 YR 5/6, Reddish Yellow							Y	√ N	Lones (spin)		
	20	40	20		ained, poorly graded,					Y	✓ N	
	40	55	15				-			Y	✓ N	
	40 55 15 Sand, Fine-grained, poorly graded, with clay, Reddish Yellow						Y	N				
						Y	N					
						Y	N					
/ELI							Y	N				
DF W						Y	N					
000										Y	N	
CLA										Y	N	
OGI										Y	N	
EOL										Y	N	
4. HYDROGEOLOGIC LOG OF WELL								-		Y	N	
IdY										Y	N	
4. H										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:				TOTA	L ESTIN	IATED	
	D PUMI		IR LIFT	BAILER 01	THER - SPECIFY:				WEL	L YIELD	(gpm):	0.00
NO	WELL TEST 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.											
VOISIV	MISCELLA	NEOUS INF	ORMATION:	11			1 1 0		••••	· .		1
TEST; RIG SUPERVI			be	emporary well materia low ground surface(b	al removed and soil ogs), then hydrated b	boring	ite chip	illed using dr	s to sur	ings from	n total de	epth to ten feet
INS 5												
; RIC	OSE DITAUG 8 2022 M10:19											
EST	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:											
5. T	Shane Eldridge, Cameron Pruitt											
URE	CORRECT F	RECORD OI	F THE ABOVE I	TIES THAT, TO THE B DESCRIBED HOLE AN 10 DAYS AFTER COM	D THAT HE OR SH	E WIL	L FILE					
SIGNATURE	Jack .	Atkins		Ja	ckie D. Atkins					8/4/	2022	
6.	SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE											
	$\frac{1}{2} \frac{1}{2} \frac{1}$	NAL USE			POD NO.			WR-20 WE TRN NO.				rsion 01/28/2022)
-		and the second se	E. 28.1.	3.7	102.10.		WEIT	TAG ID NO.	10	6170		PAGE 2 OF 2
	F		2. 20.1.				11 1111	ING ID NO.				

.



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

Page 44 of 164

August 4, 2022

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4625 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4625 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Caron Middland

Lucas Middleton

Enclosures: as noted above

DEE DIT AUG 8 2022 PM10:19

TAR HEEL 19-18-7 FEDERAL COM 5H (08.30.2024)



World Hillshade

12/2/2024

USA Flood Hazard Areas

1% Annual Chance Flood Hazard

1:18,056 0 0.13 0.25 0.5 mi 0 0.2 0.4 0.8 km

Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph,

TAR HEEL 19-18-7 FEDERAL COM 5H (08.30.2024)



New Mexico Oil Conservation Division

APPENDIX E



Received by OCD: 3/20/2025 12:03:26 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 12/26/2024 10:58:30 AM

JOB DESCRIPTION

Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Eddy Co., NM

JOB NUMBER

880-52439-1

Page 48 of 164

Eurofins Midland 1211 W. Florida Ave Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization

AMER

Generated 12/26/2024 10:58:30 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 50 of 164

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	13
	15
	22
Lab Chronicle	25
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	32

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Job ID: 880-52439-1	
SDG: Eddy Co., NM	

Qualifiers

Dil Fac

DL

ND

Quaimers		3
GC VOA		Λ
Qualifier U	Qualifier Description	
0	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	Α	5
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, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
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	40
CFU	Colony Forming Unit	13
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	

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)

Dilution Factor

LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

- MDC Minimum Detectable Concentration (Radiochemistry)
- Method Detection Limit MDL
- ML Minimum Level (Dioxin) MPN Most Probable Number
- MQL Method Quantitation Limit
- NC Not Calculated
 - 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)
- Relative Percent Difference, a measure of the relative difference between two points RPD
- TEF Toxicity Equivalent Factor (Dioxin)
- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Project: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Job ID: 880-52439-1

Eurofins Midland

Job ID: 880-52439-1

Job Narrative 880-52439-1

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 12/18/2024 3:16 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98003 and analytical batch 880-98267 was outside the control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98003 and analytical batch 880-98267 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-1 (0-1") (880-52439-1), S-4 (0-1") (880-52439-4) and S-5 (0-1") (880-52439-5). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2 (0-1") (880-52439-2) and S-3 (0-1") (880-52439-3). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-6 (0-1") (880-52439-6). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98235 and analytical batch 880-98269 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-7 (0-1") (880-52439-7), S-8 (0-1") (880-52439-8), (LCS 880-98235/2-A) and (LCSD 880-98235/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-52440-A-1-G MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98269 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-98235 and analytical batch 880-98269 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 were within limits for the associated laboratory control sample (LCS); therefore, the data have been reported.

Case Narrative

Client: Carmona Resources Project: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Job ID: 880-52439-1 (Continued)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-52440-A-1-F) and (880-52440-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The closing continuing calibration verification (CCVC) associated with batch 880-98269 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The method blank for preparation batch 880-98404 and analytical batch 880-98430 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-98404/2-A) and (LCSD 880-98404/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-98404 and analytical batch 880-98430 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 880-98272 and analytical batch 880-98286 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.

Job ID: 880-52439-1

Eurofins Midland

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: S-1 (0-1") Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/19/24 09:09	12/19/24 14:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/19/24 09:09	12/19/24 14:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/19/24 09:09	12/19/24 14:24	1
n-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/19/24 09:09	12/19/24 14:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/19/24 09:09	12/19/24 14:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/19/24 09:09	12/19/24 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/19/24 09:09	12/19/24 14:24	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/19/24 09:09	12/19/24 14:24	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/19/24 14:24	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (G	C)						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	<u> </u>	50.1		mg/Kg			12/19/24 16:15	1
		nics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL		D			
Analyte Gasoline Range Organics				MDL	Unit mg/Kg	D	Prepared 12/17/24 07:50	Analyzed 12/19/24 16:15	
Analyte Gasoline Range Organics GRO)-C6-C10	Result	Qualifier U	RL	MDL		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.1	Qualifier U	RL 50.1	MDL	mg/Kg	<u>D</u>	12/17/24 07:50	12/19/24 16:15	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.1	Qualifier U U	RL 50.1	MDL	mg/Kg	<u> </u>	12/17/24 07:50	12/19/24 16:15	1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Dil Range Organics (Over C28-C36)	Result <50.1 <50.1	Qualifier U U	RL 50.1	MDL	mg/Kg mg/Kg	<u> </u>	12/17/24 07:50 12/17/24 07:50	12/19/24 16:15 12/19/24 16:15	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Dil Range Organics (Over C28-C36) Surrogate	Result <50.1 <50.1 <50.1	Qualifier U U U	RL 50.1 50.1 50.1	MDL	mg/Kg mg/Kg	<u>D</u>	12/17/24 07:50 12/17/24 07:50 12/17/24 07:50	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.1	Qualifier U U Qualifier	RL 50.1 50.1 50.1 <i>Limits</i>	MDL	mg/Kg mg/Kg	<u> </u>	12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 Analyzed	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.1	Qualifier U U Qualifier S1- S1-	RL 50.1 50.1 50.1 50.1 70 - 130 70 - 130	MDL	mg/Kg mg/Kg	<u>D</u>	12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 Analyzed 12/19/24 16:15	1 1 1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	Result <50.1	Qualifier U U Qualifier S1- S1-	RL 50.1 50.1 50.1 50.1 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 Analyzed 12/19/24 16:15	1 1 <i>Dil Fac</i> 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	Result <50.1	Qualifier U U Qualifier S1- S1- hy - Soluble	RL 50.1 50.1 50.1 50.1 70.1 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg		12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50 12/17/24 07:50	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15	1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Dil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride	Result <50.1	Qualifier U U Qualifier S1- S1- hy - Soluble	RL 50.1 50.1 50.1 50.1 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50 12/17/24 07:50 Prepared	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 Analyzed 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride lient Sample ID: S-2 (0-1") ate Collected: 12/18/24 00:00	Result <50.1	Qualifier U U Qualifier S1- S1- hy - Soluble	RL 50.1 50.1 50.1 50.1 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50 12/17/24 07:50 Prepared	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 15:31 Analyzed 12/19/24 15:31 ple ID: 880-5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride lient Sample ID: S-2 (0-1") ate Collected: 12/18/24 00:00	Result <50.1	Qualifier U U Qualifier S1- S1- hy - Soluble	RL 50.1 50.1 50.1 50.1 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50 12/17/24 07:50 Prepared	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 15:31 Analyzed 12/19/24 15:31 ple ID: 880-5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride lient Sample ID: S-2 (0-1") ate Collected: 12/18/24 00:00 ate Received: 12/18/24 15:16	Result <50.1	Qualifier U U Qualifier S1- S1- hy - Soluble Qualifier	RL 50.1 50.1 50.1 50.1 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit		12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50 12/17/24 07:50 Prepared	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 15:31 Analyzed 12/19/24 15:31 ple ID: 880-5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Dil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride lient Sample ID: S-2 (0-1") ate Collected: 12/18/24 00:00 ate Received: 12/18/24 15:16 Method: SW846 8021B - Volatile	Result <50.1	Qualifier U U Qualifier S1- S1- hy - Soluble Qualifier	RL 50.1 50.1 50.1 50.1 70 - 130 70 - 130 RL		mg/Kg mg/Kg mg/Kg Unit Unit		12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50 12/17/24 07:50 Prepared	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 15:31 Analyzed 12/19/24 15:31 ple ID: 880-5	1 1 1 1 1 1 1 1 2439-2 x: Solid
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Chloride Client Sample ID: S-2 (0-1") ate Collected: 12/18/24 00:00 ate Received: 12/18/24 15:16 Method: SW846 8021B - Volatile Analyte Benzene	Result <50.1	Qualifier U U Qualifier S1- S1- hy - Soluble Qualifier	RL 50.1 50.1 50.1 50.1 70 - 130 70 - 130 70 - 50.2	MDL	mg/Kg mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	12/17/24 07:50 12/17/24 07:50 12/17/24 07:50 Prepared 12/17/24 07:50 12/17/24 07:50 Prepared Lab Sam	12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 16:15 12/19/24 15:31 ple ID: 880-55 Matri	1 1 <i>Dil Fac</i> 1 1 2 Dil Fac 5

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52439-1

Matrix: Solid

5

Eurofins Midland

12/19/24 14:44

12/19/24 14:44

12/19/24 14:44

12/19/24 14:44

Analyzed

12/19/24 14:44

12/19/24 14:44

Released to Imaging: 6/4/2025 10:46:07 AM

Ethylbenzene

Xylenes, Total

o-Xylene

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

0.00200

0.00399

0.00200

0.00399

Limits

70 - 130

70 - 130

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

%Recovery Qualifier

105

108

mg/Kg

mg/Kg

mg/Kg

mg/Kg

12/19/24 09:09

12/19/24 09:09

12/19/24 09:09

12/19/24 09:09

Prepared

12/19/24 09:09

12/19/24 09:09

1

1

1

1

1

1

Dil Fac

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52439-2

Client Sample ID: S-2 (0-1") Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/19/24 14:44	
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<48.3	U	48.3		mg/Kg			12/19/24 16:29	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<48.3	U	48.3		mg/Kg		12/17/24 07:50	12/19/24 16:29	
(GRO)-C6-C10									
Diesel Range Organics (Over	<48.3	U	48.3		mg/Kg		12/17/24 07:50	12/19/24 16:29	
C10-C28)									
Oil Range Organics (Over C28-C36)	<48.3	U	48.3		mg/Kg		12/17/24 07:50	12/19/24 16:29	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	70		70 - 130				12/17/24 07:50	12/19/24 16:29	
o-Terphenyl	66	S1-	70 - 130				12/17/24 07:50	12/19/24 16:29	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2180		50.5		mg/Kg			12/19/24 15:39	

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

Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

880-52439-3 ample ID. Matrix: Solid

1

1

1

1

1

1

1

1

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 12/19/24 09:09 12/19/24 17:46 0.00202 mg/Kg Toluene <0.00202 U 0.00202 12/19/24 09:09 12/19/24 17:46 mg/Kg Ethylbenzene <0.00202 U 0.00202 12/19/24 09:09 12/19/24 17:46 mg/Kg m-Xylene & p-Xylene <0.00404 U 0.00404 mg/Kg 12/19/24 09:09 12/19/24 17:46 o-Xylene <0.00202 U 0.00202 mg/Kg 12/19/24 09:09 12/19/24 17:46 <0.00404 U Xylenes, Total 0.00404 12/19/24 09:09 12/19/24 17:46 mg/Kg %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 70 - 130 12/19/24 09:09 12/19/24 17:46 4-Bromofluorobenzene (Surr) 102 1,4-Difluorobenzene (Surr) 105 70 - 130 12/19/24 09:09 12/19/24 17:46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/19/24 17:46	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<48.4	U	48.4		mg/Kg			12/19/24 16:44	1
- Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<48.4	U	48.4		mg/Kg		12/17/24 07:50	12/19/24 16:44	1
Oasonne Range Organics									
0 0									
(GRO)-C6-C10 Diesel Range Organics (Over	<48.4	U	48.4		mg/Kg		12/17/24 07:50	12/19/24 16:44	1

Eurofins Midland

Page 55 of 164

Matrix: Solid

5

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

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

Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<48.4	U	48.4		mg/Kg		12/17/24 07:50	12/19/24 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/17/24 07:50	12/19/24 16:44	1
o-Terphenyl	67	S1-	70 - 130				12/17/24 07:50	12/19/24 16:44	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		49.7		mg/Kg			12/19/24 15:46	5
Client Sample ID: S-4 (0-1")							Lab Sam	ple ID: 880-5	2439-4
Date Collected: 12/18/24 00:00									x: Solid

Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 18:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/19/24 09:09	12/19/24 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 18:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/19/24 09:09	12/19/24 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				12/19/24 09:09	12/19/24 18:07	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/19/24 09:09	12/19/24 18:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/19/24 18:07	1

Method: SW846 8015 NM - Diesel R	ange Organi	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/19/24 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/17/24 07:50	12/19/24 16:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/17/24 07:50	12/19/24 16:59	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/17/24 07:50	12/19/24 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				12/17/24 07:50	12/19/24 16:59	1
o-Terphenyl	60	S1-	70 - 130				12/17/24 07:50	12/19/24 16:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1230		49.9		mg/Kg			12/19/24 16:08	5

Page 56 of 164

Matrix: Solid

5

12 13

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52439-3

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: S-5 (0-1") Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 18:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 18:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 18:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/19/24 09:09	12/19/24 18:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 18:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/19/24 09:09	12/19/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				12/19/24 09:09	12/19/24 18:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/19/24 09:09	12/19/24 18:27	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/19/24 18:27	1
			0 0)						
Method: SW846 8015 NM - Diese				MDI	11		Description	Amelianad	D!!
		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Fotal TPH	<49.8	U	49.8		mg/Kg			12/19/24 17:14	
Method: SW846 8015B NM - Dies									
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/17/24 07:50	12/19/24 17:14	1
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		12/17/24 07:50	12/19/24 17:14	
C10-C28)					0 0				
Dil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/17/24 07:50	12/19/24 17:14	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	69	S1-	70 - 130				12/17/24 07:50	12/19/24 17:14	
o-Terphenyl	65	S1-	70 - 130				12/17/24 07:50	12/19/24 17:14	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		49.8		mg/Kg			12/19/24 16:15	5
lient Sample ID: S-6 (0-1")							Lab Sam	ple ID: 880-5	2439-6
ate Collected: 12/18/24 00:00								Matri	ix: Solic
ate Received: 12/18/24 15:16									
Method: SW846 8021B - Volatile									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/19/24 09:09	12/19/24 18:48	
Toluene	<0.00199	U	0.00199		mg/Kg		12/19/24 09:09	12/19/24 18:48	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/19/24 09:09	12/19/24 18:48	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/19/24 09:09	12/19/24 18:48	

<0.00398 U 0.00398 mg/Kg 12/19/24 09:09 12/19/24 18:48 1 <0.00199 U 0.00199 mg/Kg 12/19/24 09:09 12/19/24 18:48 1 <0.00398 U 0.00398 12/19/24 09:09 12/19/24 18:48 mg/Kg 1 %Recovery Qualifier Limits Dil Fac Prepared Analyzed 12/19/24 09:09 12/19/24 18:48

4-Bromofluorobenzene (Surr) 103 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52439-5

Matrix: Solid

5

12/19/24 18:48

12/19/24 09:09

o-Xylene

Surrogate

Xylenes, Total

1

1

Page 57 of 164

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Job ID: 880-52439-1 SDG: Eddy Co., NM

Client Sample ID: S-6 (0-1") Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/19/24 18:48	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	365		49.8		mg/Kg			12/19/24 17:29	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		12/17/24 07:50	12/19/24 17:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	365		49.8		mg/Kg		12/17/24 07:50	12/19/24 17:29	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/17/24 07:50	12/19/24 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				12/17/24 07:50	12/19/24 17:29	1
o-Terphenyl	75		70 - 130				12/17/24 07:50	12/19/24 17:29	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830		49.5		mg/Kg			12/19/24 16:22	5

Client Sample ID: S-7 (0-1") Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 U 12/19/24 09:09 12/19/24 19:08 0.00201 mg/Kg Toluene <0.00201 U 0.00201 12/19/24 09:09 12/19/24 19:08 mg/Kg Ethylbenzene <0.00201 U 0.00201 12/19/24 09:09 12/19/24 19:08 mg/Kg m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 12/19/24 09:09 12/19/24 19:08 o-Xylene <0.00201 U 0.00201 mg/Kg 12/19/24 09:09 12/19/24 19:08 Xylenes, Total <0.00402 U 0.00402 12/19/24 09:09 12/19/24 19:08 mg/Kg %Recovery Qualifier Limits Dil Fac Prepared Surrogate Analyzed 70 - 130 12/19/24 09:09 12/19/24 19:08 4-Bromofluorobenzene (Surr) 102 1,4-Difluorobenzene (Surr) 102 70 - 130 12/19/24 09:09 12/19/24 19:08

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
<0.00402	U	0.00402		mg/Kg			12/19/24 19:08	
Range Organ	ics (DRO) (G	SC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9		mg/Kg			12/19/24 21:59	
el Range Orga	nics (DRO)	(GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U *+	49.9		mg/Kg		12/19/24 08:26	12/19/24 21:59	1
	U *+	49.9		mg/Kg		12/19/24 08:26	12/19/24 21:59	
-	<0.00402 Range Organ Result <49.9 el Range Orga Result	<0.00402 U Range Organics (DRO) (C Result Qualifier						

Eurofins Midland

Page 58 of 164

Lab Sample ID: 880-52439-6

Matrix: Solid

Matrix: Solid

1

1

1

1

1

1

1

1

5

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: S-7 (0-1")

Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/19/24 08:26	12/19/24 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/19/24 08:26	12/19/24 21:59	1
o-Terphenyl	66	S1-	70 - 130				12/19/24 08:26	12/19/24 21:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		50.2		mg/Kg			12/19/24 16:29	5

Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/19/24 09:09	12/19/24 19:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/19/24 09:09	12/19/24 19:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/19/24 09:09	12/19/24 19:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/19/24 09:09	12/19/24 19:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/19/24 09:09	12/19/24 19:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/19/24 09:09	12/19/24 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/19/24 09:09	12/19/24 19:29	1
1,4-Difluorobenzene (Surr)	108		70 - 130				12/19/24 09:09	12/19/24 19:29	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	_		12/19/24 19:29	1

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1130		50.0		mg/Kg			12/20/24 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *+	50.0		mg/Kg		12/19/24 21:32	12/20/24 15:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	1130	*+	50.0		mg/Kg		12/19/24 21:32	12/20/24 15:45	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 21:32	12/20/24 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/19/24 21:32	12/20/24 15:45	1
o-Terphenyl	106		70 - 130				12/19/24 21:32	12/20/24 15:45	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		49.7		mg/Kg			12/19/24 16:36	5

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52439-7

80-52439-8 Matrix: Solid

> 12 13

Matrix: Solid

Surrogate Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-52381-A-14-D MS	Matrix Spike	99	99		
880-52381-A-14-E MSD	Matrix Spike Duplicate	95	103		6
880-52439-1	S-1 (0-1")	103	106		
880-52439-2	S-2 (0-1")	105	108		
880-52439-3	S-3 (0-1")	102	105		
880-52439-4	S-4 (0-1")	97	106		8
880-52439-5	S-5 (0-1")	100	107		
880-52439-6	S-6 (0-1")	103	102		0
880-52439-7	S-7 (0-1")	102	102		3
880-52439-8	S-8 (0-1")	103	108		
LCS 880-98240/1-A	Lab Control Sample	99	98		
LCSD 880-98240/2-A	Lab Control Sample Dup	94	104		
MB 880-98240/5-A	Method Blank	97	97		
Surrogate Legend					
BFB = 4-Bromofluorober	izene (Surr)				
DER7 - 1.4 Difluorobon-					

DFBZ = 1,4-Difluorobenzene (Surr)

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

				Percent S
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-50704-A-40-A MB	Method Blank	92	97	
880-52439-1	S-1 (0-1")	69 S1-	66 S1-	
880-52439-2	S-2 (0-1")	70	66 S1-	
880-52439-3	S-3 (0-1")	71	67 S1-	
880-52439-4	S-4 (0-1")	63 S1-	60 S1-	
880-52439-5	S-5 (0-1")	69 S1-	65 S1-	
880-52439-6	S-6 (0-1")	67 S1-	75	
880-52439-7	S-7 (0-1")	70	66 S1-	
880-52439-8	S-8 (0-1")	99	106	
880-52440-A-1-G MS	Matrix Spike	70	61 S1-	
880-52440-A-1-H MSD	Matrix Spike Duplicate	68 S1-	60 S1-	
890-7473-A-19-B MS	Matrix Spike	90	80	
890-7473-A-19-C MSD	Matrix Spike Duplicate	90	79	
890-7492-A-23-C MS	Matrix Spike	92	99	
890-7492-A-23-D MSD	Matrix Spike Duplicate	92	99	
LCS 880-98003/2-A	Lab Control Sample	109	87	
LCS 880-98235/2-A	Lab Control Sample	131 S1+	111	
LCS 880-98404/2-A	Lab Control Sample	158 S1+	172 S1+	
LCSD 880-98003/3-A	Lab Control Sample Dup	102	82	
LCSD 880-98235/3-A	Lab Control Sample Dup	153 S1+	129	
LCSD 880-98404/3-A	Lab Control Sample Dup	166 S1+	175 S1+	
MB 880-98003/1-A	Method Blank	77	68 S1-	
MB 880-98235/1-A	Method Blank	73	72	
MB 880-98404/1-A	Method Blank	93	96	
380-98404/1-A Surrogate Legend	Method Blank	93	96	

1CO = 1-Chlorooctane

Job ID: 880-52439-1 SDG: Eddy Co., NM

Prep Type: Total/NA

Surrogate Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) OTPH = o-Terphenyl Job ID: 880-52439-1 SDG: Eddy Co., NM

Page 61 of 164

Lab Sample ID: MB 880-98240/5-A

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 98132								Prep Type: 1 Prep Batch	
	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 11:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/19/24 09:09	12/19/24 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 09:09	12/19/24 11:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/19/24 09:09	12/19/24 11:19	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				12/19/24 09:09	12/19/24 11:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/19/24 09:09	12/19/24 11:19	1
	A					C	lient Sample I	D: Lab Control	Sample

Lab Sample ID: LCS 880-98240/1-A Matrix: Solid

Analysis Batch: 98132

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1117		mg/Kg		112	70 - 130	
Toluene	0.100	0.1051		mg/Kg		105	70 - 130	
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2116		mg/Kg		106	70 - 130	
o-Xylene	0.100	0.1057		mg/Kg		106	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-98240/2-A

Matrix: Solid

Analysis Batch: 98132							Prep	Batch:	98240
	Spike	LCSD L	CSD				%Rec		RPD
Analyte	Added	Result C	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1238		mg/Kg		124	70 - 130	10	35
Toluene	0.100	0.1160		mg/Kg		116	70 - 130	10	35
Ethylbenzene	0.100	0.1166		mg/Kg		117	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2323		mg/Kg		116	70 - 130	9	35
o-Xylene	0.100	0.1164		mg/Kg		116	70 - 130	10	35

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

Lab Sample ID: 880-52381-A-14-D MS

Matrix: Solid Analysis Bataby 09122

Analysis Batch: 98132									Prep	Batch: 98240
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.1104		mg/Kg		111	70 - 130	
Toluene	<0.00199	U	0.0996	0.1040		mg/Kg		104	70 - 130	

Eurofins Midland

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Page 62 of 164

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 98240

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

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

Job ID: 880-52439-1 SDG: Eddy Co., NM

5

7

Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132	λ-14-D MS							Client		: Matrix Type: To Batch:	tal/NA
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00199	U	0.0996	0.1052		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2092		mg/Kg		103	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								
Lab Sample ID: 880-52381-4 Matrix: Solid	99 A-14-E MSD		70 - 130			CI	ient Sa	ample ID		oike Dup Type: To Batch:	tal/N/
Lab Sample ID: 880-52381-4 Matrix: Solid	A-14-E MSD	Sample	70 _ 130 Spike	MSD	MSD	CI	ient Sa	ample ID	Prep 1	Type: To	tal/NA 98240
Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132	A-14-E MSD Sample	Sample Qualifier			MSD Qualifier	CI	ient Sa D	ample ID %Rec	Prep 1 Prep	Type: To	tal/NA 98240 RPC
Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132 Analyte	A-14-E MSD Sample	Qualifier	Spike						Prep 1 Prep %Rec	Type: To Batch:	tal/NA 98240 RPD Limit
Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132 Analyte Benzene	A-14-E MSD Sample Result	Qualifier U	Spike Added	Result		Unit		%Rec	Prep 1 Prep %Rec Limits	Type: To Batch: 	tal/NA 98240 RPD Limit
Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132 Analyte Benzene Toluene	A-14-E MSD Sample Result <0.00199	Qualifier	Spike Added 0.101	Result 0.1175		_ <mark>Unit</mark> mg/Kg		%Rec 117	Prep 7 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 6	tal/NA
Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132 Analyte Benzene Toluene Ethylbenzene	A-14-E MSD Sample Result <0.00199 <0.00199	Qualifier U U U	Spike Added 0.101 0.101	Result 0.1175 0.1106		– <mark>Unit</mark> mg/Kg mg/Kg		%Rec 117 110	Prep 7 Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: RPD 6 6	tal/NA 98240 RPD Limit 35 35 35
Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	A-14-E MSD Sample Result <0.00199 <0.00199 <0.00199	Qualifier U U U U U	Spike Added 0.101 0.101 0.101	Result 0.1175 0.1106 0.1122		Unit mg/Kg mg/Kg mg/Kg		%Rec 117 110 111	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch: RPD 6 6 7	tal/NA 98240 RPD Limit 35 35 35 35
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	A-14-E MSD Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Qualifier U U U U U	Spike Added 0.101 0.101 0.101 0.202	Result 0.1175 0.1106 0.1122 0.2234		Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 117 110 111 109	Prep 7 Prep 9 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 6 6 7 7 7	tal/NA 98240 RPD Limit 35 35 35 35
Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	A-14-E MSD Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Qualifier U U U U U U MSD	Spike Added 0.101 0.101 0.101 0.202	Result 0.1175 0.1106 0.1122 0.2234		Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 117 110 111 109	Prep 7 Prep 9 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 6 6 7 7 7	tal/NA 98240 RPD Limit 35 35
Lab Sample ID: 880-52381-4 Matrix: Solid Analysis Batch: 98132 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	A-14-E MSD Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MSD	Qualifier U U U U U U MSD	Spike Added 0.101 0.101 0.101 0.202 0.101	Result 0.1175 0.1106 0.1122 0.2234		Unit mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 117 110 111 109	Prep 7 Prep 9 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 6 6 7 7 7	tal/NA 98240 RPD Limit 35 35 35

Lab Sample ID: MB 880-98003/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 98267 Prep Batch: 98003 MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U 50.0 12/17/24 07:50 12/19/24 02:57 Gasoline Range Organics mg/Kg 1 (GRO)-C6-C10 Diesel Range Organics (Over 50.0 12/17/24 07:50 12/19/24 02:57 <50.0 U mg/Kg 1 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/17/24 07:50 12/19/24 02:57 1 MB MB Limits Dil Fac Surrogate %Recovery Qualifier Prepared Analyzed 70 - 130 12/17/24 07:50 12/19/24 02:57 1-Chlorooctane 77 1 70 - 130 12/17/24 07:50 12/19/24 02:57 o-Terphenyl 68 S1-1 Lab Sample ID: LCS 880-98003/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid							Prep 1	Type: Tot	al/NA
Analysis Batch: 98267							Prep	Batch: 9	8003
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	1043		mg/Kg		104	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	864.1		mg/Kg		86	70 - 130		
C10-C28)									

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

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

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: LCS 880-98	003/2-A						Client	Sample	ID: Lab C		
Matrix: Solid										Type: Tot	
Analysis Batch: 98267									Prep	Batch:	98003
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	87		70 - 130								
Lab Sample ID: LCSD 880-9	a8003/3-∆					Clier	nt Sam	nle ID [.] I	_ab Contro	Sample	e Dui
Matrix: Solid							it oui			Type: Tot	
Analysis Batch: 98267										Batch:	
Analysis Batch. 30207			Spike	LCSD	LCSD				%Rec	Batem	RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000	989.9		mg/Kg			70 - 130	5	2
(GRO)-C6-C10				00010					10-100	Ū	-
Diesel Range Organics (Over			1000	777.1		mg/Kg		78	70 - 130	11	2
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane	<u></u>		70 - 130								
o-Terphenyl	82		70 - 130								
Lab Sample ID: 890-7473-A	-19-B MS							Client	Sample ID		
Matrix: Solid									Prep 1	Type: Tot	tal/N/
									Pron	Batch:	9800
Analysis Batch: 98267									i i up	Button.	
Analysis Batch: 98267	Sample	Sample	Spike	MS	MS				%Rec	Duton	
	Result	Qualifier	Added		MS Qualifier	Unit	D	%Rec			
Analyte Gasoline Range Organics	•	Qualifier				- <mark>Unit</mark> mg/Kg	<u>D</u>	%Rec 79	%Rec		
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	Added	Result 783.9	Qualifier	mg/Kg	<u>D</u>	79	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	Added	Result	Qualifier		<u>D</u>		%Rec Limits	·	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9	Qualifier U	Added	Result 783.9	Qualifier	mg/Kg	<u>D</u>	79	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U F1	Added	Result 783.9	Qualifier	mg/Kg	D	79	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	Result <49.9 <49.9 MS	Qualifier U U F1 MS	Added	Result 783.9	Qualifier	mg/Kg	<u>D</u>	79	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane		Qualifier U U F1 MS	Added 995 995 Limits	Result 783.9	Qualifier	mg/Kg	<u>D</u>	79	%Rec Limits 70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl		Qualifier U U F1 MS	Added 995 995 <u>Limits</u> 70 - 130	Result 783.9	Qualifier	mg/Kg		64	%Rec Limits 70 - 130 70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A		Qualifier U U F1 MS	Added 995 995 <u>Limits</u> 70 - 130	Result 783.9	Qualifier	mg/Kg		64	%Rec Limits 70 - 130 70 - 130 9: Matrix Sp	·	licat
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid		Qualifier U U F1 MS	Added 995 995 <u>Limits</u> 70 - 130	Result 783.9	Qualifier	mg/Kg		64	%Rec Limits 70 - 130 70 - 130 9: Matrix Sp Prep 1	Dike Dup	licat
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid		Qualifier U U F1 MS Qualifier	Added 995 995 <u>Limits</u> 70 - 130 70 - 130	Result 783.9 665.9	Qualifier F1	mg/Kg		64	%Rec Limits 70 - 130 70 - 130 9: Matrix Sp Prep 1 Prep 1	·	licate tal/N/ 98003
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid Analysis Batch: 98267		Qualifier U F1 MS Qualifier Sample	Added 995 995 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 783.9 665.9 MSD	Qualifier F1	mg/Kg mg/Kg CI	ient Sa	64	%Rec Limits 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 7 Prep 7 Prep 8	oike Dup Type: Tot Batch: 9	licate tal/N/ 98003 RPI
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid Analysis Batch: 98267 Analyte	Result 	Qualifier U F1 MS Qualifier Sample Qualifier	Added 995 995 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 783.9 665.9 MSD Result	Qualifier F1	mg/Kg mg/Kg Cl		79 64 ample ID	%Rec Limits 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 7 Prep 7 %Rec Limits	Dike Dup	licato tal/NA 98003 RPI Limi
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid Analysis Batch: 98267 Analyte Gasoline Range Organics		Qualifier U F1 MS Qualifier Sample Qualifier	Added 995 995 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 783.9 665.9 MSD	Qualifier F1	mg/Kg mg/Kg CI	ient Sa	64	%Rec Limits 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 7 Prep 7 Prep 8	oike Dup Type: Tot Batch: 9 RPD	licato tal/NA 98003 RPI Limi
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid Analysis Batch: 98267 Analyte Gasoline Range Organics (GRO)-C6-C10	Result 	Qualifier U F1 MS Qualifier Qualifier U	Added 995 995 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 783.9 665.9 MSD Result	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg Cl	ient Sa	79 64 ample ID	%Rec Limits 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 7 Prep 7 %Rec Limits	oike Dup Type: Tot Batch: 9 RPD	licate tal/N/ 98003 RPI Lim 2
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid Analysis Batch: 98267 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	-19-C MSD Sample (49.9) MS %Recovery 90 80 -19-C MSD	Qualifier U F1 MS Qualifier Qualifier U	Added 995 995 <u>Limits</u> 70 - 130 70 - 130 70 - 130 995	Result 783.9 665.9 MSD Result 788.1	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg Cl Mg/Kg	ient Sa	79 64 ample ID <u>%Rec</u> 79	%Rec Limits 70 - 130 70 - 130 70 - 130 Prep 1 Prep 2 %Rec Limits 70 - 130	bike Dup Type: Tot Batch: 9 1	licate tal/N/ 9800 RPI Lim 2
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid Analysis Batch: 98267 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U F1 MS Qualifier Qualifier U	Added 995 995 <u>Limits</u> 70 - 130 70 - 130 70 - 130 995	Result 783.9 665.9 MSD Result 788.1	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg Cl Mg/Kg	ient Sa	79 64 ample ID <u>%Rec</u> 79	%Rec Limits 70 - 130 70 - 130 70 - 130 Prep 1 Prep 2 %Rec Limits 70 - 130	bike Dup Type: Tot Batch: 9 1	ilicate tal/N/ 98003 RPI Limi 2
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid Analysis Batch: 98267 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U F1 MS Qualifier Qualifier U U F1	Added 995 995 <u>Limits</u> 70 - 130 70 - 130 70 - 130 995	Result 783.9 665.9 MSD Result 788.1	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg Cl Mg/Kg	ient Sa	79 64 ample ID <u>%Rec</u> 79	%Rec Limits 70 - 130 70 - 130 70 - 130 Prep 1 Prep 2 %Rec Limits 70 - 130	bike Dup Type: Tot Batch: 9 1	licate
Analysis Batch: 98267 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-7473-A Matrix: Solid Analysis Batch: 98267 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U F1 MS Qualifier U U F1 U F1 MSD	Added 995 995 <u>Limits</u> 70 - 130 70 - 130 70 - 130 995 995	Result 783.9 665.9 MSD Result 788.1	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg Cl Mg/Kg	ient Sa	79 64 ample ID <u>%Rec</u> 79	%Rec Limits 70 - 130 70 - 130 70 - 130 Prep 1 Prep 2 %Rec Limits 70 - 130	bike Dup Type: Tot Batch: 9 1	ilicate tal/N/ 98003 RPI Limi 20

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

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

	5/1-A											Client Sa	mple ID:	Metho	
Matrix: Solid													-		otal/NA
Analysis Batch: 98269															: 98235
		мв	МВ												
Analyte	R	esult	Qualifier		RL	1	MDL	Unit		D	Pr	repared	Analy	zed	Dil Fac
Gasoline Range Organics		<50.0			50.0			mg/Kg	1			9/24 08:26	12/19/24		1
(GRO)-C6-C10								0.0	•						
Diesel Range Organics (Over	<	<50.0	U		50.0			mg/Kg	I	1	12/19	9/24 08:26	12/19/24	18:45	1
C10-C28)															
Oil Range Organics (Over C28-C36)	<	<50.0	U		50.0			mg/Kg	1	1	12/19	9/24 08:26	12/19/24	18:45	1
		ΜВ	MB												
Surrogate	%Reco			Lim	its						Pi	repared	Analy	zed	Dil Fac
1-Chlorooctane		73								1		9/24 08:26	12/19/24		1
o-Terphenyl		72		70 -	130					1	12/1	9/24 08:26	12/19/24	18:45	1
		. –								-					-
Lab Sample ID: LCS 880-9823	5/2-A									Clie	ent	Sample	ID: Lab C	ontrol	Sample
Matrix: Solid															otal/NA
Analysis Batch: 98269															: 98235
-				Spike		LCS	LCS						%Rec		
Analyte				Added	F	Result	Qual	ifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000		1248			mg/Kg			125	70 - 130		
(GRO)-C6-C10															
				1000		1142			mg/Kg			114	70 - 130		
Diesel Range Organics (Over															
Diesel Range Organics (Over C10-C28)															
	LCS	LCS													
	LCS %Recovery			Limits											
C10-C28)	%Recovery	Qua													
C10-C28)	%Recovery	Qua		Limits											
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 131 111	Qua		Limits											
C10-C28) Surrogate 1-Chlorooctane	%Recovery 131 111	Qua		Limits					Cli	ent S	am	ple ID: L	ab Contro	ol Samı	ole Dup
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 131 111	Qua		Limits					Cli	ent S	am	ple ID: L			ole Dup otal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982	%Recovery 131 111	Qua		Limits					Cli	ent S	am	ple ID: L	Prep	Type: T	
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid	%Recovery 131 111	Qua		Limits		LCSD	LCSI	D	Cli	ent S	am	ple ID: L	Prep	Type: T	otal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid	%Recovery 131 111	Qua		Limits 70 - 130 70 - 130 Spike Added		Result	Qual		Unit		am	ple ID: La	Prep Prej	Type: T	otal/NA : 98235 RPD
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics	%Recovery 131 111	Qua		Limits 70 - 130 70 - 130 Spike		Result						-	Prep Prej %Rec	Type: T b Batch	otal/NA : 98235 RPD Limit
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 131 111	Qua		Limits 70 - 130 70 - 130 Spike Added 1000		Result 1395	Qual *+		Unit mg/Kg			%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 11	otal/NA : 98235 RPD Limit 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 131 111	Qua		Limits 70 - 130 70 - 130 Spike Added		Result	Qual *+		Unit			%Rec	Prep Prep %Rec Limits	Type: T b Batch RPD	otal/NA : 98235 RPD Limit 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 131 111	Qua		Limits 70 - 130 70 - 130 Spike Added 1000		Result 1395	Qual *+		Unit mg/Kg			%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 11	otal/NA : 98235 RPD Limit 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 131 111	Qual S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000		Result 1395	Qual *+		Unit mg/Kg			%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 11	otal/NA : 98235 RPD Limit 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<u>%Recovery</u> 131 111 235/3-A 	Qual S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000		Result 1395	Qual *+		Unit mg/Kg			%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 11	otal/NA : 98235 RPD Limit 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<u>%Recovery</u> 131 111 235/3-A 	Qual S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000		Result 1395	Qual *+		Unit mg/Kg			%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 11	otal/NA : 98235 RPD Limit 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	<u>%Recovery</u> 131 111 235/3-A 	Qual S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000		Result 1395	Qual *+		Unit mg/Kg			%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 11	otal/NA : 98235 RPD Limit 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	<u>%Recovery</u> 131 111 235/3-A <u>LCSD</u> <u>%Recovery</u> 153 129	Qual S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130		Result 1395	Qual *+		Unit mg/Kg			%Rec 140 134	Prep %Rec Limits 70 - 130 70 - 130	Type: T b Batch RPD 11 16	otal/NA : 98235 RPD <u>Limit</u> 20 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-52440-A-1	<u>%Recovery</u> 131 111 235/3-A <u>LCSD</u> <u>%Recovery</u> 153 129	Qual S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130		Result 1395	Qual *+		Unit mg/Kg			%Rec 140 134	Prep %Rec Limits 70 - 130 70 - 130	Type: T D Batch RPD 11 16 D: Matri	tiotal/NA : 98235 RPD Limit 20 20 x Spike
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-52440-A-1 Matrix: Solid	<u>%Recovery</u> 131 111 235/3-A <u>LCSD</u> <u>%Recovery</u> 153 129	Qual S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130		Result 1395	Qual *+		Unit mg/Kg			%Rec 140 134	Prep %Rec Limits 70 - 130 70 - 130	Type: T D Batch RPD 11 16 2: Matri Type: T	total/NA : 98235 RPD Limit 20 20 20 x Spike total/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-52440-A-1	<u>%Recovery</u> 131 111 235/3-A <i>LCSD</i> %Recovery 153 129 I-G MS	Quan S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000 1000 <i>Limits</i> 70 - 130 70 - 130		Result 1395 1336	Qual *+ *+		Unit mg/Kg			%Rec 140 134	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: T D Batch RPD 11 16 2: Matri Type: T	tiotal/NA : 98235 RPD Limit 20 20 x Spike
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-52440-A-4 Matrix: Solid Analysis Batch: 98269	<u>%Recovery</u> 131 111 235/3-A <i>LCSD</i> %Recovery 153 129 1-G MS Sample	Qual S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	F	Result 1395 1336 MS	Qual *+ *+	ifier	Unit mg/Kg mg/Kg		<u>D</u>	%Rec 140 134	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: T D Batch RPD 11 16 2: Matri Type: T	total/NA : 98235 RPD Limit 20 20 20 x Spike total/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-52440-A-4 Matrix: Solid Analysis Batch: 98269 Analyte	<u>%Recovery</u> 131 111 235/3-A <i>LCSD</i> %Recovery 153 129 1-G MS Sample Result	Quai S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 70 - 130	F	Result 1395 1336 MS Result	Qual *+ *+ MS Qual	ifier	Unit mg/Kg mg/Kg			%Rec 140 134 Client \$	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: T D Batch RPD 11 16 2: Matri Type: T	total/NA : 98235 RPD Limit 20 20 20 x Spike total/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-52440-A-4 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics	<u>%Recovery</u> 131 111 235/3-A <i>LCSD</i> %Recovery 153 129 1-G MS Sample	Quai S1+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	F	Result 1395 1336 MS	Qual *+ *+ MS Qual	ifier	Unit mg/Kg mg/Kg		<u>D</u>	%Rec 140 134	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: T D Batch RPD 11 16 2: Matri Type: T	total/NA : 98235 RPD Limit 20 20 20 x Spike total/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-982 Matrix: Solid Analysis Batch: 98269 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-52440-A-4 Matrix: Solid Analysis Batch: 98269 Analyte	<u>%Recovery</u> 131 111 235/3-A <i>LCSD</i> %Recovery 153 129 1-G MS Sample Result	Quai S1+ LCS Quai S1+ Sam Quai U *+	lifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 70 - 130	F	Result 1395 1336 MS Result	Qual *+ *+ *+ F1	ifier	Unit mg/Kg mg/Kg		<u>D</u>	%Rec 140 134 Client \$	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: T D Batch RPD 11 16 2: Matri Type: T	total/NA : 98235 RPD Limit 20 20 20 x Spike total/NA

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52440-A-1-G MS

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

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

Lab Sample ID: 880-52440-A-1	-G MS											Client	Sample ID:		
Matrix: Solid													Prep T		
Analysis Batch: 98269													Prep	Batch:	98235
	MS	MS													
Surrogate	%Recovery	Qua	lifior	Limits											
1-Chlorooctane	70	Quu		70 - 130											
o-Terphenyl		S1-		70 - 130 70 - 130											
o-reiphenyi	07	57-		10 - 150											
Lab Sample ID: 880-52440-A-1	-H MSD									Clie	nt Sa	ample ID:	Matrix Sp	ike Du	plicate
Matrix: Solid															otal/NA
Analysis Batch: 98269															98235
· ······ , ··· · ···· · · · · · · · · · · · · ·	Sample	Sam	ple	Spike		MSD	MSD)					%Rec		RPD
Analyte	Result		-	Added		Result			Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0			998		553.4			mg/Kg				70 - 130	5	20
(GRO)-C6-C10		-												-	
Diesel Range Organics (Over	<50.0	U *+	F1	998		551.6	F1		mg/Kg			55	70 - 130	5	20
C10-C28)															
	MSD	Mer	,												
Surrogate	%Recovery	Qua		Limits											
1-Chlorooctane	68	S1-		70 - 130											
o-Terphenyl		S1-		70 - 130 70 - 130											
o-respirency	00	31-		70 - 730											
Lab Sample ID: 880-50704-A-4	IO-A MB											Client Sa	mple ID: N	/lethod	Blank
Matrix: Solid															otal/NA
Analysis Batch: 98430															98404
Analysis Baton. source		МВ	МВ										Trop	Batom	00101
Analyte	R		Qualifier		RL		MDL	Unit		D	Pi	repared	Analyze	ed	Dil Fac
Gasoline Range Organics		50.0			50.0			mg/Kg				9/24 21:32	12/20/24 1		1
(GRO)-C6-C10								0 0							
Diesel Range Organics (Over	<	50.0	U		50.0			mg/Kg			12/19	9/24 21:32	12/20/24 1	4:55	1
C10-C28)															
Oil Range Organics (Over C28-C36)	<	50.0	U		50.0			mg/Kg			12/19	9/24 21:32	12/20/24 1	4:55	1
		ΜВ	MB												
Surrogate	%Reco			Lim	its						Pi	repared	Analyze	ed	Dil Fac
1-Chlorooctane		92										9/24 21:32	12/20/24 1		1
o-Terphenyl		97		70 -								9/24 21:32	12/20/24 1		1
		•													•
Lab Sample ID: MB 880-98404	/1-A											Client Sa	mple ID: N	/lethod	Blank
Matrix: Solid															otal/NA
Analysis Batch: 98430															98404
		мв	МВ												
Analyte	R	esult	Qualifier		RL		MDL	Unit		D	Pi	repared	Analyze	ed	Dil Fac
Gasoline Range Organics	<	50.0	U		50.0			mg/Kg			12/19	9/24 21:32	12/20/24 0	9:12	1
(GRO)-C6-C10								-							
Diesel Range Organics (Over	<	50.0	U		50.0			mg/Kg			12/19	9/24 21:32	12/20/24 0	9:12	1
C10-C28)															
Oil Range Organics (Over C28-C36)	<	50.0	U		50.0			mg/Kg			12/19	9/24 21:32	12/20/24 0	9:12	1
		ΜВ	МВ												
Surrogate	%Reco			Lim	its						Pi	repared	Analyze	ed	Dil Fac
1-Chlorooctane		93			130							9/24 21:32	12/20/24 0		1
o-Terphenyl		96		70 -								9/24 21:32	12/20/24 0		1
		- •												-	

Client Sample ID: Matrix Spike

Page 66 of 164

5

Lab Sample ID: LCS 880-98404/2-A

Lab Sample ID: LCSD 880-98404/3-A

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

1-Chlorooctane

Matrix: Solid

Analysis Batch: 98430

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 98430

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

QC Sample Results

LCS LCS

1398 *+

1468 *+

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

140

147

Spike

Added

1000

1000

Limits

70 - 130

70 - 130

Spike

Added

1000

1000

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

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

LCS LCS %Recovery Qualifier

158 S1+

172 S1+

Job ID: 880-5243	9-1
SDG: Eddy Co.,	NM

Prep Type: Total/NA

Prep Batch: 98404

Page 67 of 164

5
7
8
9

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98404

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 98404

Client Sample ID: Lab Control Sample

%Rec

Limits

70 - 130

70 - 130

A	
)4	
PD	
nit	
20	

LCSD	LCSD				RPD		
Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1465	*+	mg/Kg		147	70 - 130	5	20
1590	*+	mg/Kg		159	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	166	S1+	70 - 130
o-Terphenyl	175	S1+	70 - 130

Lab Sample ID: 890-7492-A-23-C MS	1
Matrix: Solid	

Analysis Batch: 98430									Prep	Batch:	98404	
	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	781.1		mg/Kg		78	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	867.3		mg/Kg		84	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-7492-A-23-D MSD
Matrix: Solid

Analysis	Batch:	98430	
----------	--------	-------	--

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	804.1		mg/Kg		80	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	863.1		mg/Kg		84	70 - 130	0	20	
		MSD										

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	92	70 _ 130

Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client: Carmona Resources

Job ID: 880-52439-1 SDG: Eddy Co., NM

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

Lab Sample ID: 890-7492-A-23-D MS	SD								C	lient S	ample II	D: Matrix Sp		
Matrix: Solid												Prep 1	ype: To	tal/NA
Analysis Batch: 98430												Prep	Batch:	98404
	MSD	MSD												
Surrogate %F	Recovery	Qual		Limits										
o-Terphenyl	99			70 - 130										
/ Iethod: 300.0 - Anions, Ion Ch	romat	ogra	aphy											
Lab Sample ID: MB 880-98272/1-A											Client S	Sample ID:	Method	Blank
Matrix: Solid													Type: S	
Analysis Batch: 98286														
		МВ	МВ											
Analyte	R	esult	Qualifier		RL		MDL	Unit		DF	Prepared	Analyz	ed	Dil Fa
Chloride	<	<10.0	U		10.0			mg/Kg				12/19/24	14:41	
Lab Sample ID: LCS 880-98272/2-A										Clien	t Sample	e ID: Lab Co	ontrol S	ample
Matrix: Solid										onon	Country		Type: S	
Analysis Batch: 98286												Trop	1900.0	olubi
Analysis Batch. 30200				Spike		LCS	LCS					%Rec		
Analyte				Added		Result		ifier	Unit	D	%Rec	Limits		
Chloride				250		267.3			mg/Kg		107	90 - 110		
-														
Lab Sample ID: LCSD 880-98272/3-/	Α								Clie	ent Sar	nple ID:	Lab Contro	I Samp	le Du
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 98286														
				Spike		LCSD	LCSI	0				%Rec		RPI
Analyte				Added		Result	Qual	ifier	Unit	D	%Rec	Limits	RPD	Limi
Chloride				250		275.0			mg/Kg		110	90 - 110	3	20
Lab Sample ID: 880-52387-A-1-E MS	5										Client	Sample ID	: Matrix	Spik
	5										Client		: Matrix Type: S	
Lab Sample ID: 880-52387-A-1-E MS Matrix: Solid Analysis Batch: 98286	5										Client			
and the second	Sample	Sam	ple	Spike		MS	MS				Client			-
Matrix: Solid				Spike Added		MS Result		ifier	Unit	D	Client %Rec	Prep		-
Matrix: Solid Analysis Batch: 98286 Analyte	Sample	Qual		•			Qual		<mark>Unit</mark> mg/Kg	<u>D</u>		Prep %Rec		
Matrix: Solid Analysis Batch: 98286 Analyte Chloride	Sample Result 212	Qual		Added		Result	Qual		mg/Kg		%Rec 120	Prep %Rec Limits	Type: S	oluble
Matrix: Solid Analysis Batch: 98286	Sample Result 212	Qual		Added		Result	Qual		mg/Kg		%Rec 120	Prep %Rec Limits 90 - 110 D: Matrix Sp	Type: S	oluble
Matrix: Solid Analysis Batch: 98286 Analyte Chloride Lab Sample ID: 880-52387-A-1-F MS	Sample Result 212	Qual		Added		Result	Qual		mg/Kg		%Rec 120	Prep %Rec Limits 90 - 110 D: Matrix Sp	Type: S 	oluble
Matrix: Solid Analysis Batch: 98286 Analyte Chloride Lab Sample ID: 880-52387-A-1-F MS Matrix: Solid	Sample Result 212	Qual F1	ifier	Added		Result 511.1	Qual		mg/Kg		%Rec 120	Prep %Rec Limits 90 - 110 D: Matrix Sp	Type: S 	oluble
Matrix: Solid Analysis Batch: 98286 Analyte Chloride Lab Sample ID: 880-52387-A-1-F MS Matrix: Solid	Sample Result 212	Qual F1	ifier	Added 250		Result 511.1	Qual F1		mg/Kg		%Rec 120	Prep %Rec Limits 90 - 110 D: Matrix Sp Prep	Type: S 	oluble

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

GC VOA

Analysis Batch: 98132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-1	S-1 (0-1")	Total/NA	Solid	8021B	98240
880-52439-2	S-2 (0-1")	Total/NA	Solid	8021B	98240
880-52439-3	S-3 (0-1")	Total/NA	Solid	8021B	98240
880-52439-4	S-4 (0-1")	Total/NA	Solid	8021B	98240
880-52439-5	S-5 (0-1")	Total/NA	Solid	8021B	98240
880-52439-6	S-6 (0-1")	Total/NA	Solid	8021B	98240
880-52439-7	S-7 (0-1")	Total/NA	Solid	8021B	98240
880-52439-8	S-8 (0-1")	Total/NA	Solid	8021B	98240
MB 880-98240/5-A	Method Blank	Total/NA	Solid	8021B	98240
LCS 880-98240/1-A	Lab Control Sample	Total/NA	Solid	8021B	98240
LCSD 880-98240/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98240
880-52381-A-14-D MS	Matrix Spike	Total/NA	Solid	8021B	98240
880-52381-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98240

Prep Batch: 98240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-1	S-1 (0-1")	Total/NA	Solid	5035	
880-52439-2	S-2 (0-1")	Total/NA	Solid	5035	
880-52439-3	S-3 (0-1")	Total/NA	Solid	5035	
880-52439-4	S-4 (0-1")	Total/NA	Solid	5035	
880-52439-5	S-5 (0-1")	Total/NA	Solid	5035	
880-52439-6	S-6 (0-1")	Total/NA	Solid	5035	
880-52439-7	S-7 (0-1")	Total/NA	Solid	5035	
880-52439-8	S-8 (0-1")	Total/NA	Solid	5035	
MB 880-98240/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98240/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98240/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52381-A-14-D MS	Matrix Spike	Total/NA	Solid	5035	
880-52381-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-1	S-1 (0-1")	Total/NA	Solid	Total BTEX	
880-52439-2	S-2 (0-1")	Total/NA	Solid	Total BTEX	
880-52439-3	S-3 (0-1")	Total/NA	Solid	Total BTEX	
880-52439-4	S-4 (0-1")	Total/NA	Solid	Total BTEX	
880-52439-5	S-5 (0-1")	Total/NA	Solid	Total BTEX	
880-52439-6	S-6 (0-1")	Total/NA	Solid	Total BTEX	
880-52439-7	S-7 (0-1")	Total/NA	Solid	Total BTEX	
880-52439-8	S-8 (0-1")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98003

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-52439-1	S-1 (0-1")	Total/NA	Solid	8015NM Prep	
880-52439-2	S-2 (0-1")	Total/NA	Solid	8015NM Prep	
880-52439-3	S-3 (0-1")	Total/NA	Solid	8015NM Prep	
880-52439-4	S-4 (0-1")	Total/NA	Solid	8015NM Prep	
880-52439-5	S-5 (0-1")	Total/NA	Solid	8015NM Prep	
880-52439-6	S-6 (0-1")	Total/NA	Solid	8015NM Prep	

Eurofins Midland

Page 69 of 164

5 6

Job ID: 880-52439-1

SDG: Eddy Co., NM

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

GC Semi VOA (Continued)

Prep Batch: 98003 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
MB 880-98003/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98003/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7473-A-19-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7473-A-19-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 98235

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-52439-7	S-7 (0-1")	Total/NA	Solid	8015NM Prep	
MB 880-98235/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98235/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98235/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52440-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52440-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-1	S-1 (0-1")	Total/NA	Solid	8015B NM	98003
880-52439-2	S-2 (0-1")	Total/NA	Solid	8015B NM	98003
880-52439-3	S-3 (0-1")	Total/NA	Solid	8015B NM	98003
880-52439-4	S-4 (0-1")	Total/NA	Solid	8015B NM	98003
880-52439-5	S-5 (0-1")	Total/NA	Solid	8015B NM	98003
880-52439-6	S-6 (0-1")	Total/NA	Solid	8015B NM	98003
MB 880-98003/1-A	Method Blank	Total/NA	Solid	8015B NM	98003
LCS 880-98003/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98003
LCSD 880-98003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98003
890-7473-A-19-B MS	Matrix Spike	Total/NA	Solid	8015B NM	98003
890-7473-A-19-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98003

Analysis Batch: 98269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-7	S-7 (0-1")	Total/NA	Solid	8015B NM	98235
MB 880-98235/1-A	Method Blank	Total/NA	Solid	8015B NM	98235
LCS 880-98235/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98235
LCSD 880-98235/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98235
880-52440-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	98235
880-52440-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98235

Prep Batch: 98404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-8	S-8 (0-1")	Total/NA	Solid	8015NM Prep	
880-50704-A-40-A MB	Method Blank	Total/NA	Solid	8015NM Prep	
MB 880-98404/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98404/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7492-A-23-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7492-A-23-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
nalysis Batch: 98430					
Lah Osmula ID		Duran Trans	Madaia	Madla ad	Dura Datak

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
880-52439-8	S-8 (0-1")	Total/NA	Solid	8015B NM	98404

Eurofins Midland

Page 70 of 164

Job ID: 880-52439-1 SDG: Eddy Co., NM

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

GC Semi VOA (Continued)

Analysis Batch: 98430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50704-A-40-A MB	Method Blank	Total/NA	Solid	8015B NM	98404
MB 880-98404/1-A	Method Blank	Total/NA	Solid	8015B NM	98404
LCS 880-98404/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98404
LCSD 880-98404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98404
890-7492-A-23-C MS	Matrix Spike	Total/NA	Solid	8015B NM	98404
890-7492-A-23-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98404

Analysis Batch: 98472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-1	S-1 (0-1")	Total/NA	Solid	8015 NM	
880-52439-2	S-2 (0-1")	Total/NA	Solid	8015 NM	
880-52439-3	S-3 (0-1")	Total/NA	Solid	8015 NM	
880-52439-4	S-4 (0-1")	Total/NA	Solid	8015 NM	
880-52439-5	S-5 (0-1")	Total/NA	Solid	8015 NM	
880-52439-6	S-6 (0-1")	Total/NA	Solid	8015 NM	
880-52439-7	S-7 (0-1")	Total/NA	Solid	8015 NM	
880-52439-8	S-8 (0-1")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-1	S-1 (0-1")	Soluble	Solid	DI Leach	
880-52439-2	S-2 (0-1")	Soluble	Solid	DI Leach	
880-52439-3	S-3 (0-1")	Soluble	Solid	DI Leach	
880-52439-4	S-4 (0-1")	Soluble	Solid	DI Leach	
880-52439-5	S-5 (0-1")	Soluble	Solid	DI Leach	
880-52439-6	S-6 (0-1")	Soluble	Solid	DI Leach	
880-52439-7	S-7 (0-1")	Soluble	Solid	DI Leach	
880-52439-8	S-8 (0-1")	Soluble	Solid	DI Leach	
MB 880-98272/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98272/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98272/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52387-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52387-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52439-1	S-1 (0-1")	Soluble	Solid	300.0	98272
880-52439-2	S-2 (0-1")	Soluble	Solid	300.0	98272
880-52439-3	S-3 (0-1")	Soluble	Solid	300.0	98272
880-52439-4	S-4 (0-1")	Soluble	Solid	300.0	98272
880-52439-5	S-5 (0-1")	Soluble	Solid	300.0	98272
880-52439-6	S-6 (0-1")	Soluble	Solid	300.0	98272
880-52439-7	S-7 (0-1")	Soluble	Solid	300.0	98272
880-52439-8	S-8 (0-1")	Soluble	Solid	300.0	98272
MB 880-98272/1-A	Method Blank	Soluble	Solid	300.0	98272
LCS 880-98272/2-A	Lab Control Sample	Soluble	Solid	300.0	98272
LCSD 880-98272/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98272
880-52387-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	98272
880-52387-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98272

Eurofins Midland

ID: 880-52/30-1

Page 71 of 164

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Chronicle

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: S-1 (0-1") Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98240	12/19/24 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98132	12/19/24 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98464	12/19/24 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			98472	12/19/24 16:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	98003	12/17/24 07:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 16:15	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98286	12/19/24 15:31	СН	EET MID

Lab Sample ID: 880-52439-2 Matrix: Solid

Lab Sample ID: 880-52439-3

Matrix: Solid

trix: Solid

Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98240	12/19/24 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98132	12/19/24 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98464	12/19/24 14:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			98472	12/19/24 16:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.35 g	10 mL	98003	12/17/24 07:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 16:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98286	12/19/24 15:39	СН	EET MID

Client Sample ID: S-3 (0-1") Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

Batch	Batch	Batch	Dil	Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98240	12/19/24 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98132	12/19/24 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98464	12/19/24 17:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			98472	12/19/24 16:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.34 g	10 mL	98003	12/17/24 07:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 16:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98286	12/19/24 15:46	СН	EET MID

Client Sample ID: S-4 (0-1") Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98240	12/19/24 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98132	12/19/24 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98464	12/19/24 18:07	SM	EET MID

Page 25 of 32

Eurofins Midland

5

9

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52439-1

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-52439-4
Lab Chronicle

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: S-4 (0-1") Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98472	12/19/24 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98003	12/17/24 07:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 16:59	ТКС	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98286	12/19/24 16:08	CH	EET MID

Client Sample ID: S-5 (0-1") Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98240	12/19/24 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98132	12/19/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98464	12/19/24 18:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			98472	12/19/24 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98003	12/17/24 07:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 17:14	ткс	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98286	12/19/24 16:15	CH	EET MID

Client Sample ID: S-6 (0-1")

Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98240	12/19/24 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98132	12/19/24 18:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98464	12/19/24 18:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			98472	12/19/24 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98003	12/17/24 07:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98267	12/19/24 17:29	ткс	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98286	12/19/24 16:22	СН	EET MID

Client Sample ID: S-7 (0-1") Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98240	12/19/24 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98132	12/19/24 19:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98464	12/19/24 19:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			98472	12/19/24 21:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98235	12/19/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98269	12/19/24 21:59	TKC	EET MID

Eurofins Midland

Matrix: Solid

Page 73 of 164

Job ID: 880-52439-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52439-4 Matrix: Solid

Lab Sample ID: 880-52439-5

Lab Sample ID: 880-52439-6

Lab Sample ID: 880-52439-7

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: S-7 (0-1") Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98286	12/19/24 16:29	СН	EET MID

Client Sample ID: S-8 (0-1") Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

Lab Sample ID	: 880-52439-8
	Matrix: Solid

Lab Sample ID: 880-52439-7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98240	12/19/24 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98132	12/19/24 19:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98464	12/19/24 19:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			98472	12/20/24 15:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98404	12/19/24 21:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98430	12/20/24 15:45	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98286	12/19/24 16:36	СН	EET MID

Laboratory References:

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

Job ID: 880-52439-1

SDG: Eddy Co., NM

Matrix: Solid

9

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Laboratory: Eurofins Midland

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

thority	Progra	3m	Identification Number	Expiration Date	
xas	NELAF	ָכ	T104704400	06-30-25	
The following enalytee	are included in this report by	t the laboratory is not parti	fed by the governing outbority. This liv	t may include analytan	
0,	oes not offer certification.	the laboratory is not certin	ified by the governing authority. This list	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
300.0		Solid	Chloride		
8015 NM		Solid	Total TPH		
8015B NM	8015NM Prep	Solid	Diesel Range Organics (O	Jver C10-C28)	
8015B NM	8015NM Prep	Solid	Gasoline Range Organics	(GRO)-C6-C10	
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over	C28-C36)	
8021B	5035	Solid	Benzene		
8021B	5035	Solid	Ethylbenzene		
8021B	5035	Solid	m-Xylene & p-Xylene		
8021B	5035	Solid	o-Xylene		
8021B	5035	Solid	Toluene		
8021B	5035	Solid	Xylenes, Total		
Total BTEX		Solid	Total BTEX		

Job ID: 880-52439-1 SDG: Eddy Co., NM

Method Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Job ID: 880-52439-1 SDG: Eddy Co., NM

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
EPA = US	STM International Environmental Protection Agency		
	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edi	tion, November 1986 And Its Updates.	
TAL SOP :	= TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R	eferences: = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		
	,		

Eurofins Midland

Released to Imaging: 6/4/2025 10:46:07 AM

Sample Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Job ID: 880-52439-1	ł
SDG: Eddy Co., NM	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52439-1	S-1 (0-1")	Solid	12/18/24 00:00	12/18/24 15:16
880-52439-2	S-2 (0-1")	Solid	12/18/24 00:00	12/18/24 15:16
880-52439-3	S-3 (0-1")	Solid	12/18/24 00:00	12/18/24 15:16
880-52439-4	S-4 (0-1")	Solid	12/18/24 00:00	12/18/24 15:16
880-52439-5	S-5 (0-1")	Solid	12/18/24 00:00	12/18/24 15:16
880-52439-6	S-6 (0-1")	Solid	12/18/24 00:00	12/18/24 15:16
880-52439-7	S-7 (0-1")	Solid	12/18/24 00:00	12/18/24 15:16
880-52439-8	S-8 (0-1")	Solid	12/18/24 00:00	12/18/24 15:16



Received by OCD: 3/20/2025 12:03:26 PM

12/26/2024

Page 78 of 164

14

Job Number: 880-52439-1 SDG Number: Eddy Co., NM

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 52439 List Number: 1

<6mm (1/4").

Creator: Vasquez, Julisa

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

Received by OCD: 3/20/2025 12:03:26 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 12/23/2024 9:24:39 AM

JOB DESCRIPTION

Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Eddy Co., NM

JOB NUMBER

880-52440-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization

AMER

Generated 12/23/2024 9:24:39 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 82 of 164

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
	7
Surrogate Summary	13
QC Sample Results	14
	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

· · · · J	
Job ID: 880-52440-1	
SDG: Eddy Co., NM	

Qualifiers

CNF

		— ა
GC VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	Α	5
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	<u> </u>
F1	MS and/or MSD recovery exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
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.	
 Ø	Listed under the "D" column to designate that the result is reported on a dry weight basis	4 9
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	13

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)

Contains No Free Liquid

chemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit Minimum Level (Dioxin)

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: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Job ID: 880-52440-1

Job ID: 880-52440-1

Eurofins Midland

380-52440-1

Job Narrative 880-52440-1

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 12/18/2024 3:16 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

Receipt Exceptions

The following sample was listed on the Chain of Custody (COC); however, no sample was received: H-1 (0-1') (880-52440-9).

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-1') (880-52440-1), H-2 (0-1') (880-52440-2), H-3 (0-1') (880-52440-3), H-4 (0-1') (880-52440-4), H-5 (0-1') (880-52440-5), H-6 (0-1') (880-52440-6), H-7 (0-1') (880-52440-7), H-8 (0-1') (880-52440-8) and H-1 (0-1') (880-52440-9).

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 880-98235 and analytical batch 880-98269 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-2 (0-1') (880-52440-2), H-3 (0-1') (880-52440-3), H-4 (0-1') (880-52440-4), H-5 (0-1') (880-52440-5), H-6 (0-1') (880-52440-6), H-7 (0-1') (880-52440-7), H-8 (0-1') (880-52440-8), (LCS 880-98235/2-A) and (LCSD 880-98235/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-52440-A-1-G MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98269 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-98235 and analytical batch 880-98269 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 were within limits for the associated laboratory control sample (LCS); therefore, the data have been reported.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-1') (880-52440-1) and (880-52440-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The closing continuing calibration verification (CCVC) associated with batch 880-98269 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Eurofins Midland

Page 84 of 164

Case Narrative

Client: Carmona Resources Project: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Job ID: 880-52440-1 (Continued)

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98272 and analytical batch 880-98286 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

Job ID: 880-52440-1

Eurofins Midland

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: H-1 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 14:23	1
ōluene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 14:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 14:23	1
n-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/19/24 08:58	12/19/24 14:23	
-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 14:23	
(ylenes, Total	<0.00399	U	0.00399		mg/Kg		12/19/24 08:58	12/19/24 14:23	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
-Bromofluorobenzene (Surr)	109		70 - 130				12/19/24 08:58	12/19/24 14:23	
,4-Difluorobenzene (Surr)	105		70 - 130				12/19/24 08:58	12/19/24 14:23	ŝ
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00399	U	0.00399		mg/Kg			12/19/24 14:23	,
Method: SW846 8015 NM - Diese									
nalyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
otal TPH	<50.0		50.0		mg/Kg			12/19/24 19:31	
Method: SW846 8015B NM - Dies			· · ·						
nalyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Basoline Range Organics	<50.0	U *+ F1	50.0		mg/Kg		12/19/24 08:26	12/19/24 19:31	
GRO)-C6-C10	~50.0	U *+ F1	50.0		malka		12/19/24 08:26	12/19/24 19:31	
Diesel Range Organics (Over C10-C28)	<50.0	UTFI	50.0		mg/Kg		12/19/24 00.20	12/19/24 19.31	
Dil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 08:26	12/19/24 19:31	
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
-Chlorooctane	57	S1-	70 - 130				12/19/24 08:26	12/19/24 19:31	
-Terphenyl	55	S1-	70 - 130				12/19/24 08:26	12/19/24 19:31	
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	96.8	F1	9.98		mg/Kg			12/19/24 16:43	
lient Sample ID: H-2 (0-1')							Lab Sam	ple ID: 880-5	2440-2
te Collected: 12/18/24 00:00 te Received: 12/18/24 15:16								Matri	ix: Solie
	Organia Carro	ounde (CO							
Method: SW846 8021B - Volatile		Ounds (GC Qualifier) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	Result	quanno	116				opui cu	7.1141y204	2010

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/19/24 08:58	12/19/24 14:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/19/24 08:58	12/19/24 14:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/19/24 08:58	12/19/24 14:43	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/19/24 08:58	12/19/24 14:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/19/24 08:58	12/19/24 14:43	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/19/24 08:58	12/19/24 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/19/24 08:58	12/19/24 14:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/19/24 08:58	12/19/24 14:43	1

Eurofins Midland

Page 86 of 164

Job ID: 880-52440-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52440-1

Matrix: Solid

5

land

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Job ID: 880-52440-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52440-2

Client Sample ID: H-2 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/19/24 14:43	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/19/24 20:16	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *+	49.8		mg/Kg		12/19/24 08:26	12/19/24 20:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *+	49.8		mg/Kg		12/19/24 08:26	12/19/24 20:16	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/19/24 08:26	12/19/24 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				12/19/24 08:26	12/19/24 20:16	1
o-Terphenyl	57	S1-	70 - 130				12/19/24 08:26	12/19/24 20:16	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		10.0		mg/Kg			12/19/24 17:05	1

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

Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

Lab Sample ID: 880-52440-3 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 16:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/19/24 08:58	12/19/24 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 16:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/19/24 08:58	12/19/24 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				12/19/24 08:58	12/19/24 16:17	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/19/24 08:58	12/19/24 16:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/19/24 16:17	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/19/24 20:31	1
	esel Range Orga	nics (DRO)	(GC)						
A	Bocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quanner			Unit		Troparca	Analyzea	Dirruc

(GRO)-C6-C10			0.0		
Diesel Range Organics (Over	<49.8 U*+	49.8	mg/Kg	12/19/24 08:26	12/19/24 20:31
C10-C28)					

Eurofins Midland

Page 87 of 164

Matrix: Solid

5

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: H-3 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/19/24 08:26	12/19/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				12/19/24 08:26	12/19/24 20:31	1
o-Terphenyl	57	S1-	70 - 130				12/19/24 08:26	12/19/24 20:31	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.0		9.96		mg/Kg			12/19/24 17:12	1

Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 16:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 16:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 16:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/19/24 08:58	12/19/24 16:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 16:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/19/24 08:58	12/19/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/19/24 08:58	12/19/24 16:38	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/19/24 08:58	12/19/24 16:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/19/24 16:38	1

Method: SW846 8015 NM - Diesel R	Range Organ	ics (DRO) (O	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/19/24 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U *+	49.7		mg/Kg		12/19/24 08:26	12/19/24 20:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U *+	49.7		mg/Kg		12/19/24 08:26	12/19/24 20:46	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/19/24 08:26	12/19/24 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				12/19/24 08:26	12/19/24 20:46	1
o-Terphenyl	62	S1-	70 - 130				12/19/24 08:26	12/19/24 20:46	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.4		10.0		mg/Kg			12/19/24 17:34	1

Job ID: 880-52440-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52440-3 Matrix: Solid

> 12 13

Matrix: Solid

Eurofins Midland

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: H-5 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/19/24 08:58	12/19/24 16:58	1
Foluene	<0.00199	U	0.00199		mg/Kg		12/19/24 08:58	12/19/24 16:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/19/24 08:58	12/19/24 16:58	1
n-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/19/24 08:58	12/19/24 16:58	1
p-Xylene	<0.00199	U	0.00199		mg/Kg		12/19/24 08:58	12/19/24 16:58	1
Kylenes, Total	<0.00398	U	0.00398		mg/Kg		12/19/24 08:58	12/19/24 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
I-Bromofluorobenzene (Surr)	112		70 - 130				12/19/24 08:58	12/19/24 16:58	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/19/24 08:58	12/19/24 16:58	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fotal BTEX	<0.00398	U	0.00398		mg/Kg			12/19/24 16:58	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ōtal TPH	<50.0	U	50.0		mg/Kg			12/19/24 21:01	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		12/19/24 08:26	12/19/24 21:01	1
Diesel Range Organics (Over	<50.0	11 *+	50.0		mg/Kg		12/19/24 08:26	12/19/24 21:01	1
C10-C28)		0	00.0		mg/ng		12/10/21 00.20	12,10,2121.01	
Dil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 08:26	12/19/24 21:01	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
I-Chlorooctane	61	S1-	70 - 130				12/19/24 08:26	12/19/24 21:01	1
p-Terphenyl	59	S1-	70 - 130				12/19/24 08:26	12/19/24 21:01	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solub	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.7		9.94		mg/Kg			12/19/24 17:41	1
lient Sample ID: H-6 (0-1')							Lab Sam	ple ID: 880-5	2440-6
ate Collected: 12/18/24 00:00								Matri	ix: Solid
ate Received: 12/18/24 15:16									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
						_			
	<0.00201	U	0.00201		mg/Kg		12/19/24 08:58	12/19/24 17:19	1
Benzene Toluene	<0.00201 <0.00201		0.00201 0.00201		mg/Kg mg/Kg		12/19/24 08:58 12/19/24 08:58	12/19/24 17:19 12/19/24 17:19	1

EarlynoonLonio	0.00201	•	0.00201		12/10/21 00:00	12/10/21 11110	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	12/19/24 08:58	12/19/24 17:19	1
o-Xylene	<0.00201	U	0.00201	mg/Kg	12/19/24 08:58	12/19/24 17:19	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	12/19/24 08:58	12/19/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130		12/19/24 08:58	12/19/24 17:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130		12/19/24 08:58	12/19/24 17:19	1

Eurofins Midland

Page 89 of 164

Job ID: 880-52440-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52440-5

Matrix: Solid

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Job ID: 880-52440-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52440-6

Client Sample ID: H-6 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/19/24 17:19	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/24 21:16	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *+	49.9		mg/Kg		12/19/24 08:26	12/19/24 21:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *+	49.9		mg/Kg		12/19/24 08:26	12/19/24 21:16	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/19/24 08:26	12/19/24 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				12/19/24 08:26	12/19/24 21:16	1
o-Terphenyl	65	S1-	70 - 130				12/19/24 08:26	12/19/24 21:16	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.7		9.92		mg/Kg			12/19/24 17:48	1

Client Sample ID: H-7 (0-1')

Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

Lab Sample ID: 880-52440-7 Matrix: Solid

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		12/19/24 08:58	12/19/24 17:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/19/24 08:58	12/19/24 17:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/19/24 08:58	12/19/24 17:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/19/24 08:58	12/19/24 17:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/19/24 08:58	12/19/24 17:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/19/24 08:58	12/19/24 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/19/24 08:58	12/19/24 17:39	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/19/24 08:58	12/19/24 17:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/19/24 17:39	1
	esel Range Organ	ics (DRO) (C	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/19/24 21:30	1
)iesel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

		Quanto			_		/	
Gasoline Range Organics	<50.0	U *+	50.0	mg/Kg		12/19/24 08:26	12/19/24 21:30	
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *+	50.0	mg/Kg		12/19/24 08:26	12/19/24 21:30	
C10-C28)								

Eurofins Midland

Page 90 of 164

Matrix: Solid

5

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: H-7 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 08:26	12/19/24 21:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/19/24 08:26	12/19/24 21:30	1
o-Terphenyl	59	S1-	70 - 130				12/19/24 08:26	12/19/24 21:30	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		9.96		mg/Kg			12/19/24 17:55	1

Client Sample ID: H-8 (0-1')

Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

Method: SW846 8021B - Volati	e Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/19/24 08:58	12/19/24 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 18:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/19/24 08:58	12/19/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/19/24 08:58	12/19/24 18:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/19/24 08:58	12/19/24 18:00	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	_		12/19/24 18:00	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			12/19/24 21:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *+	49.8		mg/Kg		12/19/24 08:26	12/19/24 21:44	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *+	49.8		mg/Kg		12/19/24 08:26	12/19/24 21:44	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/19/24 08:26	12/19/24 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				12/19/24 08:26	12/19/24 21:44	1
o-Terphenyl	60	S1-	70 - 130				12/19/24 08:26	12/19/24 21:44	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.2		10.0		mg/Kg			12/19/24 18:02	1

Job ID: 880-52440-1 SDG: Eddy Co., NM

5

12 13

Eurofins Midland

Matrix: Solid

Surrogate Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-52381-A-11-D MS	Matrix Spike	107	104		
880-52381-A-11-E MSD	Matrix Spike Duplicate	108	103		
880-52440-1	H-1 (0-1')	109	105		- 5
880-52440-2	H-2 (0-1')	115	107		
880-52440-3	H-3 (0-1')	118	106		
880-52440-4	H-4 (0-1')	113	107		
880-52440-5	H-5 (0-1')	112	107		
880-52440-6	H-6 (0-1')	112	106		
880-52440-7	H-7 (0-1')	115	106		
880-52440-8	H-8 (0-1')	110	106		
LCS 880-98239/1-A	Lab Control Sample	106	104		
LCSD 880-98239/2-A	Lab Control Sample Dup	105	103		
MB 880-98239/5-A	Method Blank	113	104		
Surrogate Legend					
BFB = 4-Bromofluoroben	zene (Surr)				- 5
DFBZ = 1,4-Difluorobenz	ene (Surr)				

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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-52440-1	H-1 (0-1')	57 S1-	55 S1-
880-52440-1 MS	H-1 (0-1')	70	61 S1-
880-52440-1 MSD	H-1 (0-1')	68 S1-	60 S1-
880-52440-2	H-2 (0-1')	59 S1-	57 S1-
880-52440-3	H-3 (0-1')	60 S1-	57 S1-
880-52440-4	H-4 (0-1')	64 S1-	62 S1-
880-52440-5	H-5 (0-1')	61 S1-	59 S1-
880-52440-6	H-6 (0-1')	68 S1-	65 S1-
880-52440-7	H-7 (0-1')	62 S1-	59 S1-
880-52440-8	H-8 (0-1')	63 S1-	60 S1-
LCS 880-98235/2-A	Lab Control Sample	131 S1+	111
LCSD 880-98235/3-A	Lab Control Sample Dup	153 S1+	129
MB 880-98235/1-A	Method Blank	73	72

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Page 92 of 164

Job ID: 880-52440-1 SDG: Eddy Co., NM

Prep Type: Total/NA

Lab Sample ID: MB 880-98239/5-A

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 98233								Prep Type: 1 Prep Batch	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/19/24 08:58	12/19/24 11:17	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/19/24 08:58	12/19/24 11:17	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/19/24 08:58	12/19/24 11:17	1
Lab Sample ID: LCS 880-98239	/ 1-A					C	lient Sample I	D: Lab Control	Sample

Lab Sample ID: LCS 880-98239/1-A Matrix: Solid

Analysis Batch: 98233

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1094		mg/Kg		109	70 - 130	
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.1039		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2123		mg/Kg		106	70 - 130	
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-98239/2-A

Matrix: Solid

Analysis Batch: 98233							Prep	Batch:	98239
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1143		mg/Kg		114	70 - 130	4	35
Toluene	0.100	0.1106		mg/Kg		111	70 - 130	4	35
Ethylbenzene	0.100	0.1087		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2219		mg/Kg		111	70 - 130	4	35
o-Xylene	0.100	0.1132		mg/Kg		113	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-52381-A-11-D MS

Matrix: Solid Analysia Bataby 09222

Analysis Batch: 98233									Pre	p Batch: 98239
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.1155		mg/Kg		116	70 - 130	
Toluene	0.00671		0.0996	0.1119		mg/Kg		106	70 - 130	

Eurofins Midland

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Job ID: 880-52440-1

SDG: Eddy Co., NM

Prep Batch: 98239

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: 880-52381-A-11-D MS

Lab Sample ID: 880-52381-A-11-E MSD

Lab Sample ID: MB 880-98235/1-A

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Matrix: Solid

Analyte

C10-C28)

Matrix: Solid

Analysis Batch: 98269

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 98233

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 98233

QC Sample Results

MS MS

0.1113

0.2265

0.1151

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0996

0.199

0.0996

Limits

70 - 130

70 - 130

Limits

70 - 130

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

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

Sample Sample

MS MS

MSD MSD

....

Qualifier

Qualifier

Result

0.00451

0.0598

0.0196

107

104

%Recovery

		,	
	•	D: 880-52440-1 : Eddy Co., NM	
Client		: Matrix Spike	
		Type: Total/NA	
	Pre	o Batch: 98239	
	%Rec		5
%Rec	Limits		
107	70 - 130		
84	70 - 130		
96	70 - 130		7
			8

Prep Type: Total/NA

Prep Batch: 98239

D

Page 94 of 164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98235

Client Sample ID: Matrix Spike Duplicate

Released to Imaging: 6/4/2025 10:46:07 AM

Prep Type: Total/NA

Prep Batch: 98235

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
 1000	1248		mg/Kg		125	70 - 130	 -
1000	1142		mg/Kg		114	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	111		70 - 130

%Recovery Qualifier 4-Bromofluorobenzene (Surr) 108

1,4-Difluorobenzene (Surr)	103	70 - 130
Method: 8015B NM - Dies	el Range Organics	(DRO) (GC)

	MB	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/19/24 08:26	12/19/24 18:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/19/24 08:26	12/19/24 18:45	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/24 08:26	12/19/24 18:45	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/19/24 08:26	12/19/24 18:45	1
			70 - 130				12/19/24 08:26	12/19/24 18:45	

o-Ter

Analysis Batch: 98269

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

Eurofins Midland

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

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

Lab Sample ID: LCSD 880-982	35/3-A					Clier	nt Sam	ple ID: I	Lab Contro	I Sample	e Dup
Matrix: Solid									Prep 1	Type: Tot	al/NA
Analysis Batch: 98269									Prep	Batch:	98235
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1395	*+	mg/Kg		140	70 - 130	11	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1336	*+	mg/Kg		134	70 - 130	16	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	153	S1+	70 - 130								
o-Terphenyl	129		70 - 130								
Lab Sample ID: 880-52440-1 M	IS							Cli	ent Sample	e ID: H-1	(0-1')
Matrix: Solid									Prep 1	Type: Tot	al/NA
Analysis Batch: 98269									Prep	Batch:	98235
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U *+ F1	998	580.0	F1	mg/Kg		58	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U *+ F1	998	582.0	F1	mg/Kg		58	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	70		70 - 130								
o-Terphenyl	61	S1-	70 - 130								
Lab Sample ID: 880-52440-1 M	ISD							Cli	ent Sample	e ID: H-1	(0-1')
Matrix: Solid									Prep 1	Type: Tot	al/NA
Analysis Batch: 98269										Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U *+ F1	998	553.4	F1	mg/Kg		55	70 - 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U *+ F1	998	551.6	F1	mg/Kg		55	70 - 130	5	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	68	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

o-Terphenyl

60 S1-

Lab Sample ID: MB 880-98272/1-A Matrix: Solid Analysis Batch: 98286							Client Sa	ample ID: Metho Prep Type:	
-	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/19/24 14:41	1

70 - 130

Eurofins Midland

Page 95 of 164

Job ID: 880-52440-1 SDG: Eddy Co., NM Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024) Job ID: 880-52440-1 SDG: Eddy Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-98272/2 Matrix: Solid	2- A						Client	Sample	D: Lab Co Pren	ontrol Sa Type: So	
Analysis Batch: 98286									Trop	Type: O	orubic
·			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	267.3		mg/Kg		107	90 - 110		
Lab Sample ID: LCSD 880-98272	2/3-A					Clier	nt Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid								· · · ·		Type: So	
Analysis Batch: 98286											
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	275.0		mg/Kg		110	90 _ 110	3	20
Lab Sample ID: 880-52440-1 MS								Cli	ient Sample	e ID: H-1	(0-1')
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 98286											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	96.8	F1	250	316.2	F1	mg/Kg		88	90 - 110		
Lab Sample ID: 880-52440-1 MS	D							Cli	ient Sample	e ID: H-1	(0-1')
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 98286											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	96.8	F1	250	314.3	F1	mg/Kg		87	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

GC VOA

Analysis Batch: 98233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52440-1	H-1 (0-1')	Total/NA	Solid	8021B	98239
880-52440-2	H-2 (0-1')	Total/NA	Solid	8021B	98239
880-52440-3	H-3 (0-1')	Total/NA	Solid	8021B	98239
880-52440-4	H-4 (0-1')	Total/NA	Solid	8021B	98239
880-52440-5	H-5 (0-1')	Total/NA	Solid	8021B	98239
880-52440-6	H-6 (0-1')	Total/NA	Solid	8021B	98239
880-52440-7	H-7 (0-1')	Total/NA	Solid	8021B	98239
880-52440-8	H-8 (0-1')	Total/NA	Solid	8021B	98239
MB 880-98239/5-A	Method Blank	Total/NA	Solid	8021B	98239
LCS 880-98239/1-A	Lab Control Sample	Total/NA	Solid	8021B	98239
LCSD 880-98239/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98239
880-52381-A-11-D MS	Matrix Spike	Total/NA	Solid	8021B	98239
880-52381-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98239

Prep Batch: 98239

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-52440-1	H-1 (0-1')	Total/NA	Solid	5035	
880-52440-2	H-2 (0-1')	Total/NA	Solid	5035	
880-52440-3	H-3 (0-1')	Total/NA	Solid	5035	
880-52440-4	H-4 (0-1')	Total/NA	Solid	5035	
880-52440-5	H-5 (0-1')	Total/NA	Solid	5035	
880-52440-6	H-6 (0-1')	Total/NA	Solid	5035	
880-52440-7	H-7 (0-1')	Total/NA	Solid	5035	
880-52440-8	H-8 (0-1')	Total/NA	Solid	5035	
MB 880-98239/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98239/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98239/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52381-A-11-D MS	Matrix Spike	Total/NA	Solid	5035	
880-52381-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52440-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
880-52440-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
880-52440-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
880-52440-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	
880-52440-5	H-5 (0-1')	Total/NA	Solid	Total BTEX	
880-52440-6	H-6 (0-1')	Total/NA	Solid	Total BTEX	
880-52440-7	H-7 (0-1')	Total/NA	Solid	Total BTEX	
880-52440-8	H-8 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98235

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-52440-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-52440-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-52440-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-52440-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-52440-5	H-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-52440-6	H-6 (0-1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

Page 97 of 164

5 6

Job ID: 880-52440-1

SDG: Eddy Co., NM

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

GC Semi VOA (Continued)

Prep Batch: 98235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52440-7	H-7 (0-1')	Total/NA	Solid	8015NM Prep	r
880-52440-8	H-8 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-98235/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98235/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98235/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52440-1 MS	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-52440-1 MSD	H-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98269

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-52440-1	H-1 (0-1')	Total/NA	Solid	8015B NM	98235
880-52440-2	H-2 (0-1')	Total/NA	Solid	8015B NM	98235
880-52440-3	H-3 (0-1')	Total/NA	Solid	8015B NM	98235
880-52440-4	H-4 (0-1')	Total/NA	Solid	8015B NM	98235
880-52440-5	H-5 (0-1')	Total/NA	Solid	8015B NM	98235
880-52440-6	H-6 (0-1')	Total/NA	Solid	8015B NM	98235
880-52440-7	H-7 (0-1')	Total/NA	Solid	8015B NM	98235
880-52440-8	H-8 (0-1')	Total/NA	Solid	8015B NM	98235
MB 880-98235/1-A	Method Blank	Total/NA	Solid	8015B NM	98235
LCS 880-98235/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98235
LCSD 880-98235/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98235
880-52440-1 MS	H-1 (0-1')	Total/NA	Solid	8015B NM	98235
880-52440-1 MSD	H-1 (0-1')	Total/NA	Solid	8015B NM	98235

Analysis Batch: 98471

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-52440-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
880-52440-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
880-52440-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
880-52440-4	H-4 (0-1')	Total/NA	Solid	8015 NM	
880-52440-5	H-5 (0-1')	Total/NA	Solid	8015 NM	
880-52440-6	H-6 (0-1')	Total/NA	Solid	8015 NM	
880-52440-7	H-7 (0-1')	Total/NA	Solid	8015 NM	
880-52440-8	H-8 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52440-1	H-1 (0-1')	Soluble	Solid	DI Leach	
880-52440-2	H-2 (0-1')	Soluble	Solid	DI Leach	
880-52440-3	H-3 (0-1')	Soluble	Solid	DI Leach	
880-52440-4	H-4 (0-1')	Soluble	Solid	DI Leach	
880-52440-5	H-5 (0-1')	Soluble	Solid	DI Leach	
880-52440-6	H-6 (0-1')	Soluble	Solid	DI Leach	
880-52440-7	H-7 (0-1')	Soluble	Solid	DI Leach	
880-52440-8	H-8 (0-1')	Soluble	Solid	DI Leach	
MB 880-98272/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98272/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98272/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52440-1 MS	H-1 (0-1')	Soluble	Solid	DI Leach	

Eurofins Midland

Page 98 of 164

Job ID: 880-52440-1 SDG: Eddy Co., NM

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

H-3 (0-1')

H-4 (0-1')

H-5 (0-1')

H-6 (0-1')

H-7 (0-1')

H-8 (0-1')

H-1 (0-1') H-1 (0-1')

Method Blank

Lab Control Sample

Lab Control Sample Dup

HPLC/IC (Continued)

880-52440-3

880-52440-4

880-52440-5

880-52440-6

880-52440-7

880-52440-8

MB 880-98272/1-A

LCS 880-98272/2-A

880-52440-1 MS

880-52440-1 MSD

LCSD 880-98272/3-A

Leach Batch: 98272 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-52440-1 MSD	H-1 (0-1')	Soluble	Solid	DI Leach	Ę
Analysis Batch: 982	86				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-52440-1	H-1 (0-1')	Soluble	Solid	300.0	98272
880-52440-2	H-2 (0-1')	Soluble	Solid	300.0	98272

Soluble

Solid

300.0

300.0

300.0

300.0

300.0

300.0

300.0

300.0

300.0

300.0

300.0

Job ID	D: 88	0-52	440-

Page 99 of 164

98272

98272

98272

98272

98272

98272

98272

98272

98272

98272

98272

Eurofins Midland

Lab Chronicle

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: H-1 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 14:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98460	12/19/24 14:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			98471	12/19/24 19:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98235	12/19/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98269	12/19/24 19:31	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98286	12/19/24 16:43	СН	EET MID

Lab Sample ID: 880-52440-2

Lab Sample ID: 880-52440-3

Matrix: Solid

Matrix: Solid

Client Sample ID: H-2 (0-1') Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 14:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98460	12/19/24 14:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			98471	12/19/24 20:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98235	12/19/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98269	12/19/24 20:16	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98286	12/19/24 17:05	СН	EET MID

Client Sample ID: H-3 (0-1') Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 16:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98460	12/19/24 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			98471	12/19/24 20:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98235	12/19/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98269	12/19/24 20:31	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98286	12/19/24 17:12	СН	EET MID

Client Sample ID: H-4 (0-1') Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 16:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98460	12/19/24 16:38	SM	EET MID

Eurofins Midland

Lab Sample ID: 880-52440-1 Matrix: Solid

Lab Sample ID: 880-52440-4 Matrix: Solid

Lab Chronicle

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: H-4 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			98471	12/19/24 20:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98235	12/19/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98269	12/19/24 20:46	ТКС	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98286	12/19/24 17:34	СН	EET MID

Client Sample ID: H-5 (0-1') Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 16:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98460	12/19/24 16:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			98471	12/19/24 21:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98235	12/19/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98269	12/19/24 21:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98286	12/19/24 17:41	СН	EET MID

Client Sample ID: H-6 (0-1')

Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98460	12/19/24 17:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			98471	12/19/24 21:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98235	12/19/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98269	12/19/24 21:16	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98286	12/19/24 17:48	СН	EET MID

Client Sample ID: H-7 (0-1') Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98460	12/19/24 17:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			98471	12/19/24 21:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98235	12/19/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98269	12/19/24 21:30	TKC	EET MID

Eurofins Midland

Job ID: 880-52440-1 SDG: Eddy Co., NM

Lab Sample ID: 880-52440-4 Matrix: Solid

Lab Sample ID: 880-52440-5

Lab Sample ID: 880-52440-6

watrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Client Sample ID: H-7 (0-1') Date Collected: 12/18/24 00:00

Date Received: 12/18/24 15:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	98272	12/19/24 10:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98286	12/19/24 17:55	СН	EET MID

1

1

1 uL

4.99 g

50 mL

Client Sample ID: H-8 (0-1') Date Collected: 12/18/24 00:00 Date Received: 12/18/24 15.16

Analysis

Analysis

Leach

8/24 15:10	0								
Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep	5035			5.01 g	5 mL	98239	12/19/24 08:58	MNR	EET MID
Analysis	8021B		1	5 mL	5 mL	98233	12/19/24 18:00	MNR	EET MID
Analysis	Total BTEX		1			98460	12/19/24 18:00	SM	EET MID
Analysis	8015 NM		1			98471	12/19/24 21:44	SM	EET MID
Prep	8015NM Prep			10.05 g	10 mL	98235	12/19/24 08:26	EL	EET MID

1 uL

50 mL

50 mL

98269

98272

98286

12/19/24 21:44

12/19/24 10:34

12/19/24 18:02

Laboratory References:

Ргер Туре

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

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

8015B NM

DI Leach

300.0

Job ID: 880-52440-1 SDG: Eddy Co., NM

Page 102 of 164

Lab Sample ID: 880-52440-7

Lab Sample ID: 880-52440-8

TKC

SA

СН

Matrix: Solid

Matrix: Solid

EET MID

EET MID

EET MID

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Laboratory: Eurofins Midland

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

thority	Progra	am	Identification Number	Expiration Date	
xas	NELAF	د	T104704400	06-30-25	
The following englytee	are included in this report by	it the laboratory is not porti	fied by the governing outbority. This liv	at may include enclutes	
• ,	loes not offer certification.	the laboratory is not certin	ified by the governing authority. This lis	at may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
300.0	1	Solid	Chloride		
8015 NM		Solid	Total TPH		
8015B NM	8015NM Prep	Solid	Diesel Range Organics (O	Jver C10-C28)	
8015B NM	8015NM Prep	Solid	Gasoline Range Organics	GRO)-C6-C10 ;	
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over	r C28-C36)	
8021B	5035	Solid	Benzene		
8021B	5035	Solid	Ethylbenzene		
8021B	5035	Solid	m-Xylene & p-Xylene		
8021B	5035	Solid	o-Xylene		
8021B	5035	Solid	Toluene		
8021B	5035	Solid	Xylenes, Total		
Total BTEX		Solid	Total BTEX		

Job ID: 880-52440-1 SDG: Eddy Co., NM

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Job ID: 880-52440-1 SDG: Eddy Co., NM

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 Refe	rences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		
SW846 = '	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition	on, November 1986 And Its Updates.	
TAL SOP :	 TestAmerica Laboratories, Standard Operating Procedure 		
Laboratory R	eferences:		
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Sample Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federeal Com 5H (8.29.2024)

Job ID: 880-52440-1

SDG: Eddy Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52440-1	H-1 (0-1')	Solid	12/18/24 00:00	12/18/24 15:16
880-52440-2	H-2 (0-1')	Solid	12/18/24 00:00	12/18/24 15:16
880-52440-3	H-3 (0-1')	Solid	12/18/24 00:00	12/18/24 15:16
880-52440-4	H-4 (0-1')	Solid	12/18/24 00:00	12/18/24 15:16
880-52440-5	H-5 (0-1')	Solid	12/18/24 00:00	12/18/24 15:16
880-52440-6	H-6 (0-1')	Solid	12/18/24 00:00	12/18/24 15:16
880-52440-7	H-7 (0-1')	Solid	12/18/24 00:00	12/18/24 15:16
880-52440-8	H-8 (0-1')	Solid	12/18/24 00:00	12/18/24 15:16

Received by OCD: 3/20/2025 12:03:26 PM

Chain of Custody	Work Order Comments	P Drownfields RC Dperfund			ADaPT	Preservative Codes	None: NO DI Water: H ₂ O	-		H ₂ S0 ₄ : H ₂ NaOH: Na	H3PO4: HP		Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments											Date/Time	B/S SIG	
880-52440 Chain of	Moi	Program: UST/PST PRP Prownfields	State of Project:	Reporting:Level II CLevel II	Deliverables: EDD	ANALYSIS REQUEST																				Received by: (Signature)		
	Laci Luig	Cimarex Energy	600 N Marienfield St, Suite 600	Midland, TX 79701	Email: laci.luig@coterra.com ashton.thielke@coterra.com		Pres. Code		оям	1+0	amet 021B 1 - DR 0 + 0 8 300	8 X :) W9	1108	# of Cont	×	×	×	×	×	×	×	×	1 X X X		Date/Time	A1:2 1-2 12/10/	
	Bill to: (if different)	Company Name:	Address:	City, State ZIP:	laci.luig@coterra.c	Turn Around	Rush	Normal			Yes No		5	e S	Water Comp	Grab/												
					Email:	Tum	 ✓Routine 	Due Date:			Wet Ice:	dor	Reading:	nperature:	Soil	×	×	×	×	×	×	×	×	×	_			
						leral Com 5H 4)		W			Yes No Thomomore ID	Correction Factor	Temperature Reading:	Corrected Temperature:	Time	24	24	24	24	24	24	24	24	24		Relinquished by: (Signature)		
	Ashton Thielke	Carmona Resources	310 W Wall St Ste 500	Midland, TX 79701	432-813-8988	Tar Heel 19-18-7 Federal Com 5H (8.29.2024)	2594	Eddy Co, NM	JR		Tento	Yes NO	Yes No NA		cation Date	12/18/2024	12/18/2024		12/18/2024	12/18/2024				12/18/2024		Relinquishe		
			Address 310	a 71P		Momo.	Devised Number	ruject I ocation	Sampler's Name:	PO#:	SAMPLE RECEIPT	Received Intact:	Cooler Custody Seals:	Sample Custouy Jears. Total Containers:	Sample Identification	H-1 (0-1)	H-2 (0-1')	H-3 (0-1')	H-4 (0-1')	H-5 (0-1')	H-6 (0-1')	H-7 (0-1')	H-8 (0-1')	H-1 (0-1')	Comments:			

Page 106 of 164

12/23/2024

Job Number: 880-52440-1 SDG Number: Eddy Co., NM

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 52440 List Number: 1

Creator: Vasquez, Julisa

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 1/21/2025 12:38:47 PM

JOB DESCRIPTION

Tar Heel 19-18-7 Federal Com 5H (8.29.2024) Eddy Co, NM

JOB NUMBER

880-53343-1

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

AMER

Generated 1/21/2025 12:38:47 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-53343-1

SDG: Eddy Co, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Job ID: 880-53343-1 SDG: Eddy Co, NM

Qualifiers		- 3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	-
GC Semi VOA	ι.	5
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	6
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	-
U	Indicates the analyte was analyzed for but not detected.	8
Glossary		- 0
Abbreviation	These commonly used abbreviations may or may not be present in this report.	- 3
¢	Listed under the "D" column to designate that the result is reported on a dry weight basis	10
%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	4.0
DL	Detection Limit (DoD/DOE)	13
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)	

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 Not Calculated NC

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

Relative Error Ratio (Radiochemistry) RER RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Project: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Job ID: 880-53343-1

Job Narrative 880-53343-1

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 1/17/2025 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: Eastern Background (0-1") (880-53343-1) and Western Background (0-1") (880-53343-2).

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 continuing calibration verification (CCV) associated with batch 880-100652 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-100652/21).

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 880-100544 and analytical batch 880-100583 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

Job ID: 880-53343-1

Client Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Client Sample ID: Eastern Background (0-1") Date Collected: 01/15/25 00:00

Date Received: 01/17/25 08:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		01/17/25 09:23	01/17/25 13:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 09:23	01/17/25 13:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 09:23	01/17/25 13:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 09:23	01/17/25 13:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 09:23	01/17/25 13:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 09:23	01/17/25 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				01/17/25 09:23	01/17/25 13:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/17/25 09:23	01/17/25 13:37	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 13:37	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/20/25 12:08	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9		mg/Kg		01/17/25 09:29	01/20/25 12:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/25 09:29	01/20/25 12:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/25 09:29	01/20/25 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				01/17/25 09:29	01/20/25 12:08	1
o-Terphenyl	119		70 - 130				01/17/25 09:29	01/20/25 12:08	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1760		50.1		mg/Kg			01/17/25 15:32	5
lient Sample ID: Western B	ackground	(0-1")					Lab Sam	ple ID: 880-5	3343-2
ate Collected: 01/15/25 00:00 ate Received: 01/17/25 08:15								Matri	ix: Solid
Method: SW846 8021B - Volatile Analyte	• •	OUNDS (GC) Qualifier) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201		0.00201		mg/Kg		01/17/25 09:23	01/17/25 14:04	1
Toluene	<0.00201		0.00201		mg/Kg		01/17/25 09:23	01/17/25 14:04	1
Ethylbenzene	< 0.00201		0.00201		mg/Kg		01/17/25 09:23	01/17/25 14:04	1
m-Xylene & p-Xylene	< 0.00402		0.00402		mg/Kg		01/17/25 09:23	01/17/25 14:04	' 1
o-Xylene	<0.00402		0.00201		mg/Kg		01/17/25 09:23	01/17/25 14:04	1
Xylenes, Total	<0.00201		0.00201		mg/Kg		01/17/25 09:23	01/17/25 14:04	1
Nyionoo, iotai	-0.00402	0	0.00402				01,11,20 00.20	01/11/20 14.04	'
	0/ F		•• •					A	

Eurofins Midland

Analyzed

01/17/25 14:04

01/17/25 14:04

Prepared

01/17/25 09:23

01/17/25 09:23

Surrogate

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Limits

70 - 130

70 - 130

%Recovery Qualifier

98

99

1/21/2025

Dil Fac

1

1

Page 113 of 164

Matrix: Solid

Job ID: 880-53343-1 SDG: Eddy Co, NM

Lab Sample ID: 880-53343-1

Client Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024) Job ID: 880-53343-1 SDG: Eddy Co, NM

Client Sample ID: Western Background (0-1") Lab Sample ID: 880-53343-2 Date Collected: 01/15/25 00:00 Date Received: 01/17/25 08:15

<0.00402 Range Organ		0.00402		mg/Kg			01/17/25 14:04	1
	ics (DRO) (01/11/20 14.04	
Result		GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9		mg/Kg			01/20/25 12:55	1
Range Orga	nics (DRO)	(GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9		mg/Kg		01/17/25 09:29	01/20/25 12:55	1
<49.9	U	49.9		mg/Kg		01/17/25 09:29	01/20/25 12:55	1
<49.9	U	49.9		mg/Kg		01/17/25 09:29	01/20/25 12:55	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
113		70 - 130				01/17/25 09:29	01/20/25 12:55	1
115		70 - 130				01/17/25 09:29	01/20/25 12:55	1
bromatogram	by Salub	•						
• •	-		МПІ	Unit	Б	Propared	Analyzod	Dil Fac
	Quanner		MDL			Frepareu		5
	I Range Orga <u>Result</u> <49.9 <49.9 <49.9 <i>%Recovery</i> 113 115 hromatograp	Range Organics (DRO) Result Qualifier <49.9	Range Organics (DRO) (GC) Result Qualifier RL <49.9	Range Organics (DRO) (GC) Result Qualifier RL MDL <49.9	Range Organics (DRO) (GC) MDL Unit <49.9	Range Organics (DRO) (GC) MDL Unit D <49.9	Range Organics (DRO) (GC) MDL Unit D Prepared <49.9	Range Organics (DRO) (GC) MDL Unit D Prepared Analyzed <49.9

Matrix: Solid

Surrogate Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-53343-1	Eastern Background (0-1")	91	97	
880-53343-1 MS	Eastern Background (0-1")	97	98	
880-53343-1 MSD	Eastern Background (0-1")	94	104	
880-53343-2	Western Background (0-1")	98	99	
LCS 880-100498/1-A	Lab Control Sample	93	98	
LCSD 880-100498/2-A	Lab Control Sample Dup	87	95	
MB 880-100498/5-A	Method Blank	90	89	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
-1	Eastern Background (0-1")	117	119	
343-1 MS	Eastern Background (0-1")	112	122	
343-1 MSD	Eastern Background (0-1")	115	123	
343-2	Western Background (0-1")	113	115	
0-100504/2-A	Lab Control Sample	117	130	
880-100504/3-A	Lab Control Sample Dup	119	130	
30-100504/1-A	Method Blank	111	111	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Job ID: 880-53343-1

Page 115 of 164

Eurofins Midland

Lab Sample ID: MB 880-100498/5-A

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 100506								Prep Type: 1 Prep Batch:	
	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				01/17/25 09:23	01/17/25 13:11	1
1,4-Difluorobenzene (Surr)	89		70 - 130				01/17/25 09:23	01/17/25 13:11	1
Lab Sample ID: LCS 880-10049	98/1-A					C	lient Sample I	D: Lab Control	Sample

Lab Sample ID: LCS 880-100498/1-A Matrix: Solid

Analysis Batch: 100506

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08975		mg/Kg		90	70 - 130	
Toluene	0.100	0.08665		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.08538		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1789		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.09108		mg/Kg		91	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-100498/2-A

Matrix: Solid

Analysis Batch: 100506							Prep I	Batch: 1	00498
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08299		mg/Kg		83	70 - 130	8	35
Toluene	0.100	0.08070		mg/Kg		81	70 - 130	7	35
Ethylbenzene	0.100	0.07780		mg/Kg		78	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1611		mg/Kg		81	70 - 130	10	35
o-Xylene	0.100	0.08226		mg/Kg		82	70 - 130	10	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-53343-1 MS

Matrix: Solid

I	Analysis Batch: 100506									Prep	Batch: 100498
		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00199	U	0.0996	0.07700		mg/Kg		77	70 - 130	
	Toluene	<0.00199	U	0.0996	0.07282		mg/Kg		73	70 - 130	

Eurofins Midland

Prep Type: Total/NA

Client Sample ID: Method Blank

Job ID: 880-53343-1

SDG: Eddy Co, NM

				Ī	Prep Type: Total/NA Prep Batch: 100498
LCS	LCS				%Rec
Result	Qualifier	Unit	D	%Rec	Limits
0.08975		mg/Kg		90	70 - 130
0.08665		mg/Kg		87	70 - 130
0.08538		mg/Kg		85	70 - 130
0.1789		mg/Kg		89	70 - 130
0.09108		mg/Kg		91	70 - 130

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Eastern Background (0-1")

Prep Type: Total/NA

Lab Sample ID: 880-53343-1 MS

Analysis Batch: 100506

Matrix: Solid

QC Sample Results

....

mg/Kg mg/Kg

mg/Kg

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

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

			Job ID: 880-53343-1 SDG: Eddy Co, NM
Client	Samp	le ID: Ea	stern Background (0-1")
Choine	oump	10 1D. Lu	Prep Type: Total/NA
			Prep Batch: 100498
			%Rec
Unit	D	%Rec	Limits

73

76

79

70 - 130

70 - 130

70 - 130

Client Sample ID: Eastern Background (0-1")

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS
Analyte	Result	Qualifier	Added	Result	Qualifier
Ethylbenzene	<0.00199	U	0.0996	0.07264	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1515	
o-Xylene	<0.00199	U	0.0996	0.07911	
	MS	MS			
Surrogate	%Recovery	Qualifier	l imits		

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 880-53343-1 MSD Matrix: Solid

Analysis Batch: 100506

1,4-Difluorobenzene (Surr)

Analysis Batch: 100506									Prep	Batch: 1	00498	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	< 0.00199	U	0.101	0.08399		mg/Kg		83	70 - 130	9	35	
Toluene	<0.00199	U	0.101	0.07690		mg/Kg		76	70 - 130	5	35	Ē
Ethylbenzene	<0.00199	U	0.101	0.07674		mg/Kg		76	70 - 130	5	35	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1590		mg/Kg		79	70 - 130	5	35	÷.
o-Xylene	<0.00199	U	0.101	0.08275		mg/Kg		82	70 - 130	4	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	94		70 - 130									

70 - 130

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

104

Lab Sample ID: MB 880-100504/ Matrix: Solid Analysis Batch: 100652							Client Sa	mple ID: Metho Prep Type: 1 Prep Batch:	otal/NA
	MB					_			
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 09:44	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				01/17/25 09:29	01/20/25 09:44	1
o-Terphenyl	111		70 - 130				01/17/25 09:29	01/20/25 09:44	1
Lab Sample ID: LCS 880-100504	/2-A					с	lient Sample I	D: Lab Control	Sample

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 100652 Prep Batch: 100504 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 1036 104 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1135 mg/Kg 113 70 - 130

Eurofins Midland

Page 117 of 164

Released to Imaging: 6/4/2025 10:46:07 AM

C10-C28)

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Method: 80[°]

Job ID: 880-53343-1 SDG: Eddy Co, NM

504/2-A						Client	Sample	ID: Lab Co	ontrol Sa	ample
								Prep E	Batch: 1	00504
LCS	LCS									
%Recovery	Qualifier	Limits								
117		70 - 130								
130		70 - 130								
0504/3-A					Clier	nt Sam	ple ID:	Lab Contro	I Sampl	e Dup
								Prep T	ype: To	tal/NA
								Prep E	Batch: 1	00504
		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
		1000	1065		mg/Kg		107	70 - 130	3	20
		1000	1120		mg/Kg		112	70 - 130	1	20
LCSD	LCSD									
%Recovery	Qualifier	Limits								
119		70 - 130								
130		70 - 130								
MS					Client	Samp	le ID: Ea	stern Back	ground	(0-1")
								Prep T	ype: To	tal/NA
								Prep E	Batch: 1	00504
Sample	Sample	Spike	MS	MS				%Rec		
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
<49.9	U	999	924.6		mg/Kg		93	70 - 130		
<49.9	U	999	1102		mg/Kg		110	70 - 130		
MS	MS									
%Recovery	Qualifier	Limits								
112		70 - 130								
122		70 - 130								
MSD					Client	Samp	le ID: Ea	stern Back	ground	(0-1")
									-	
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
-	-	-	Result	Qualifier	Unit	D	%Rec		RPD	Limit
										20
	0		00110					101100	Ũ	
<49.9	U	999	1098		mg/Kg		110	70 - 130	0	20
					0 0					
MOD	MOD									
1/150										
0/ D	Out a 1161	1 ina 14 -								
% Recovery 115	Qualifier	Limits 70 - 130								
	%Recovery 117 130 00504/3-A LCSD %Recovery 119 130 MS Sample Result <49.9 %Recovery 112 122 MSD Sample Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	LCSLCS%RecoveryQualifier11713000504/3-A	LCS LCS %Recovery Qualifier Limits 117 70.130 130 70.130 0504/3-A Spike Added 1000 1000 1000 LCSD LCSD %Recovery Qualifier Limits 119 70.130 130 70.130 MS Sample Sample Sample Sample Spike Added - - 119 70.130 - 30 70.130 - MS Sample Spike Added - - 49.9 U 999 <49.9	LCS LCS $\frac{\% Recovery}{117}$ $\frac{Qualifier}{70.130}$ Limits 130 70.130 70.130 N0504/3-A Spike LCSD $MCSD$ LCSD LCSD $MCSD$ LCSD LCSD $MCSD$ LCSD LCSD MCS MS MS MS MS MS MSD MS MS MSD MS MS MSD Sample Sample MS MS MS MSD MS MSD MSD U 999 951.3 <49.9 U 999 951.3 <49.9 U 999 1098	LCSLCS $\frac{NRecovery}{117}$ $\frac{Qualifier}{130}$ $\frac{Limits}{70.130}$ 130 70.130 $0504/3.A$ $\frac{Added}{1000}$ $\frac{Result}{1000}$ $\frac{Qualifier}{1000}$ 1000 1105 $\frac{LCSD}{1000}$ $\frac{LCSD}{1000}$ $\frac{Qualifier}{1000}$ $\frac{LCSD}{1000}$ $\frac{LCSD}{1000}$ $\frac{Qualifier}{1000}$ $\frac{MS}{130}$ $\frac{70.130}{70.130}$ MS $\frac{Sample}{130}$ $\frac{Sample}{10}$ $\frac{Spike}{200}$ $\frac{MS}{2000}$ $\frac{MS}{120}$ $\frac{MS}{120}$ $\frac{MS}{120}$ $\frac{MS}{120}$ $\frac{MS}{122}$ $\frac{1101}{70.130}$ $\frac{MSD}{122}$ $\frac{MSD}{70.130}$ MSD $\frac{Sample}{2000}$ $\frac{Sample}{20000}$ $\frac{Spike}{2000000000000000000000000000000000000$	LCS LCS LCS %Recovery Qualifier Limits 117 70 - 130 130 70 - 130 00504/3-A Client Added Result Qualifier Unit 1000 1065 LCSD LCSD MS LCSD LCSD mg/Kg 1100 1120 mg/Kg 119 70 - 130 mg/Kg 1000 1120 mg/Kg MS Client Client Sample Sample Sample MS Kesult Qualifier Limits MS - 49.9 U 999 924.6 Unit mg/Kg 49.9 U 999 102 mg/Kg MS MS MS MS MS %Recovery Qualifier Limits mg/Kg MS/S 122 70 - 130 102 mg/Kg MS/S MSD Client MSD	LCS LCS LCS Size Si	LCS LCS LCS 3/Recovery Qualifier Limits 130 70.130 0504/3-A Client Sample ID: I Added Result Qualifier Unit D %Rec MOD 1000 1005 mg/Kg 112 LCSD LCSD LCSD MS 112 LCSD LCSD LCSD MS 112 LCSD LCSD MS MS 112 MS Client Sample ID: Ea MS MS Sample Sample Sample Spike MS MS MS Client Sample ID: Ea MS MS 10 MS MS MS MS 10 MS MS MS 10 99 100 mg/Kg 10 MS MS MS MS MS 10 10 10 MS MS MS MS 10 10 10 10	LCS LCS LCS Limits 117 70.130 70.130 130 70.130 70.730 0504/3-A Client Sample ID: Lab Control Spike LCSD LCSD Added Result Qualifier Unit D %Rec 1000 1065 mg/Kg 107 70.130 1000 1120 mg/Kg 112 70.130 1000 1120 mg/Kg 112 70.130 MS Client Sample ID: Eastern Back Prep 1 %Recovery Qualifier Limits %Rec 130 70.130 MS Client Sample ID: Eastern Back %Recovery Qualifier Added Result Qualifier Unit D %Rec 49.9 U 999 924.6 mg/Kg 100 70.130 MS MS MS MS %Rec Limits 70.130 %Recovery Qualifier Limits 70.130 <td< td=""><td>LCS LCS LCSD <thlcsd< th=""> <thlcsd< th=""></thlcsd<></thlcsd<></td></td<>	LCS LCSD LCSD <thlcsd< th=""> <thlcsd< th=""></thlcsd<></thlcsd<>

1-Chlorooctane 115 o-Terphenyl 123 70 - 130

Job ID: 880-53343-1

SDG: Eddy Co, NM

QC Sample Results

Client: Carmona Resources

Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Method: 300.0 - Anions, Ion Chromatography

_ Lab Sample ID: MB 880-100544/′	I-A											Client S	ample ID:	Method	Blank
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 100583															
		MB	MB												
Analyte	R	esult	Qualifier		RL		MDL	Unit		<u>D</u>	Pi	repared	Analy	zed	Dil Fac
Chloride	•	<10.0	U		10.0			mg/Kg					01/17/25	14:06	1
	/2-A									Cli	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 100583															
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Chloride				250		251.8			mg/Kg			101	90 - 110		
Lab Sample ID: LCSD 880-10054	4/3-A								Cli	ent S	am	ple ID:	_ab Contr	ol Sampl	e Dup
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 100583															
				Spike		LCSD	LCS	C					%Rec		RPD
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		254.3			mg/Kg		_	102	90 - 110	1	20
- Lab Sample ID: 880-53334-A-1-B	MS											Client	Sample IE): Matrix	Spike
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 100583															
	Sample	Sam	ple	Spike		MS	MS						%Rec		
	••••••••••		•								-				
Analyte	Result	Qual		Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Analyte Chloride		-		Added 1260		Result 5612		ifier	Unit mg/Kg		<u> </u>	%Rec 111	Limits 90 - 110		
Chloride	Result 4220	-						ifier	mg/Kg	Clien	_	111	90 - 110	pike Dur	olicate
·	Result 4220							ifier	mg/Kg	Clien	_	111	90 - 110 9: Matrix S		
Lab Sample ID: 880-53334-A-1-C	Result 4220							ifier	mg/Kg	Clien	_	111	90 - 110 9: Matrix S	pike Dup Type: S	
Chloride Lab Sample ID: 880-53334-A-1-C Matrix: Solid	Result 4220	F1	ifier						mg/Kg	Clien	_	111	90 - 110 9: Matrix S		
Chloride Lab Sample ID: 880-53334-A-1-C Matrix: Solid	Result 4220	F1 Sam	ifier	1260		5612	F1		mg/Kg	Clien	_	111	90 - 110 91 - 110		oluble

Released to Imaging: 6/4/2025 10:46:07 AM

GC VOA

Prep Batch: 100498

MB 880-100498/5-A

LCS 880-100498/1-A

LCSD 880-100498/2-A

Analysis Batch: 100506

880-53343-1 MS

880-53343-1 MSD

Lab Sample ID

880-53343-1

880-53343-2

MB 880-100498/5-A

LCS 880-100498/1-A

LCSD 880-100498/2-A

880-53343-1 MS

880-53343-1 MSD

Lab Sample ID

880-53343-1

880-53343-2

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Method

5035

5035

5035

5035

5035

5035

5035

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Client Sample ID

Method Blank

Lab Control Sample

Client Sample ID

Method Blank

Lab Control Sample

Lab Control Sample Dup

Eastern Background (0-1")

Eastern Background (0-1")

Lab Control Sample Dup

Eastern Background (0-1")

Eastern Background (0-1")

Eastern Background (0-1")

Western Background (0-1")

Eastern Background (0-1")

Western Background (0-1")

Job ID: 880-53343-1 SDG: Eddy Co, NM

Page 120 of 164

Prep Batch

Prep Batch

100498

100498

100498

100498

100498

100498

100498

Analysis Batch: 100679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53343-1	Eastern Background (0-1")	Total/NA	Solid	Total BTEX	
880-53343-2	Western Background (0-1")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53343-1	Eastern Background (0-1")	Total/NA	Solid	8015NM Prep	
880-53343-2	Western Background (0-1")	Total/NA	Solid	8015NM Prep	
MB 880-100504/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100504/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53343-1 MS	Eastern Background (0-1")	Total/NA	Solid	8015NM Prep	
880-53343-1 MSD	Eastern Background (0-1")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100652

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-53343-1	Eastern Background (0-1")	Total/NA	Solid	8015B NM	100504
880-53343-2	Western Background (0-1")	Total/NA	Solid	8015B NM	100504
MB 880-100504/1-A	Method Blank	Total/NA	Solid	8015B NM	100504
LCS 880-100504/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100504
LCSD 880-100504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100504
880-53343-1 MS	Eastern Background (0-1")	Total/NA	Solid	8015B NM	100504
880-53343-1 MSD	Eastern Background (0-1")	Total/NA	Solid	8015B NM	100504

Analysis Batch: 100765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53343-1	Eastern Background (0-1")	Total/NA	Solid	8015 NM	
880-53343-2	Western Background (0-1")	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

HPLC/IC

Leach Batch: 100544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53343-1	Eastern Background (0-1")	Soluble	Solid	DI Leach	
880-53343-2	Western Background (0-1")	Soluble	Solid	DI Leach	
MB 880-100544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53334-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-53334-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53343-1	Eastern Background (0-1")	Soluble	Solid	300.0	100544
880-53343-2	Western Background (0-1")	Soluble	Solid	300.0	100544
MB 880-100544/1-A	Method Blank	Soluble	Solid	300.0	100544
LCS 880-100544/2-A	Lab Control Sample	Soluble	Solid	300.0	100544
LCSD 880-100544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100544
880-53334-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	100544
880-53334-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	100544

5

Job ID: 880-53343-1

SDG: Eddy Co, NM

Lab Chronicle

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Client Sample ID: Eastern Background (0-1") Date Collected: 01/15/25 00:00 Date Received: 01

Batch

Analysis

Analysis

Leach

1/15/25	00.00	
/17/25	08:15	

Batch

8015B NM

DI Leach

300.0

Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst
Prep	5035			5.02 g	5 mL	100498	01/17/25 09:23	EL
Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 13:37	MNR
Analysis	Total BTEX		1			100679	01/17/25 13:37	SM
Analysis	8015 NM		1			100765	01/20/25 12:08	SM
Prep	8015NM Prep			10.03 g	10 mL	100504	01/17/25 09:29	EL

Initial

1 uL

4.99 g

50 mL

Final

1 uL

50 mL

50 mL

Batch

100652

100544

100583

Dil

1

5

Client Sample ID: Western Background (0-1")

Date Collected: 01/15/25 00:00

Date Received: 01/17/25 08:15

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100498	01/17/25 09:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100679	01/17/25 14:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			100765	01/20/25 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 12:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100544	01/17/25 10:47	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100583	01/17/25 15:39	СН	EET MID

Laboratory References:

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

Page 122 of 164

Job ID: 880-53343-1 SDG: Eddy Co, NM

Lab Sample ID: 880-53343-1

Prepared

01/20/25 12:08

01/17/25 10:47

01/17/25 15:32

Matrix: Solid

Lab

EET MID

5 9

Lab Sample ID: 880-53343-2

TKC

SA

СН

Matrix: Solid

	3

Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024)

Laboratory: Eurofins Midland

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

thority	Progra	.im	Identification Number	Expiration Date	
as	NELAF	د	T104704400	06-30-25	
The following englytee	are included in this report by	it the laboratory is not porti	field by the governing outhority. This liv		
• •	loes not offer certification.	the laboratory is not certin	ified by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
300.0		Solid	Chloride		
8015 NM		Solid	Total TPH		
8015B NM	8015NM Prep	Solid	Diesel Range Organics (O	Jver C10-C28)	
8015B NM	8015NM Prep	Solid	Gasoline Range Organics	, (GRO)-C6-C10	
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over	C28-C36)	
8021B	5035	Solid	Benzene		
8021B	5035	Solid	Ethylbenzene		
8021B	5035	Solid	m-Xylene & p-Xylene		
8021B	5035	Solid	o-Xylene		
8021B	5035	Solid	Toluene		
8021B	5035	Solid	Xylenes, Total		
Total BTEX		Solid	Total BTEX		

Eurofins Midland

Page 123 of 164

Job ID: 880-53343-1 SDG: Eddy Co, NM

Method Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024) Job ID: 880-53343-1 SDG: Eddy Co, NM

Page 124 of 164

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B 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
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe	erences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H (8.29.2024) Job ID: 880-53343-1 SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53343-1	Eastern Background (0-1")	Solid	01/15/25 00:00	01/17/25 08:15
880-53343-2	Western Background (0-1")	Solid	01/15/25 00:00	01/17/25 08:15

Page 125 of 164



Received by OCD: 3/20/2025 12:03:26 PM

1/21/2025

Page 126 of 164

Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 53343 List Number: 1

Creator: Vasquez, Julisa

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 880-53343-1 SDG Number: Eddy Co, NM

List Source: Eurofins Midland



Environment Testing

Page 128 of 164

PREPARED FOR

ANALYTICAL REPORT

Attn: Ashton Thielke Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 3/17/2025 2:18:39 PM

JOB DESCRIPTION

Tar Heel 19-18-7 Federal Com 5H Eddy Co, NM

JOB NUMBER

880-55645-1

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

AMER

Generated 3/17/2025 2:18:39 PM

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

Laboratory Job ID: 880-55645-1 SDG: Eddy Co, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	19
Lab Chronicle	22
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
	29

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Limit of Quantitation (DoD/DOE)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

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

DL

DLC

EDL

LOD

LOQ

MCL

MDA

MDC

MDL

MQL NC

ND

NEG

POS

PQL

QC RER

RL

RPD

TEF

TEQ

TNTC

PRES

ML MPN

DL, RA, RE, IN

civeu by OC	P. 5/20/2025 12.05.20 1 14	1 uge 151 0j 1	104
	Definitions/Glossary		
	ona Resources Tar Heel 19-18-7 Federal Com 5H	Job ID: 880-55645-1 SDG: Eddy Co, NM	
Qualifiers			
GC VOA Qualifier	Qualifier Description		i
S1+	Surrogate recovery exceeds control limits, high biased.		2
J	Indicates the analyte was analyzed for but not detected.		
GC Semi VO Qualifier	A Qualifier Description		i
61+	Surrogate recovery exceeds control limits, high biased.		
J	Indicates the analyte was analyzed for but not detected.		
IPLC/IC			
Qualifier	Qualifier Description		
J	Indicates the analyte was analyzed for but not detected.		ŝ
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
ž	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		
וח	Detection Limit (DeD/DOC)		

Case Narrative

Client: Carmona Resources Project: Tar Heel 19-18-7 Federal Com 5H Job ID: 880-55645-1

Job ID: 880-55645-1

Eurofins Midland

Job Narrative 880-55645-1

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 3/14/2025 9:48 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 -1.2°C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-3 (2"-3") (880-55645-3), CS-4 (2"-3") (880-55645-4), CS-5 (2"-3") (880-55645-5), CS-6 (2"-3") (880-55645-6), CS-7 (2"-3") (880-55645-7), CS-8 (2"-3") (880-55645-8), (CCV 880-105279/2), (CCV 880-105279/20), (CCV 880-105279/33), (LCS 880-105302/1-A), (LCSD 880-105302/2-A), (890-7809-A-1-G), (890-7809-A-1-E MS) and (890-7809-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-105302 and analytical batch 880-105279 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-105297 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-105297/32).

Passing CCV within 20 samples from the last passing CCV and within 12 hours; All data is valid

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-105305/2-A) and (LCSD 880-105305/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

Client Sample ID: CS-1 (2"-3") Date Collected: 03/13/25 00:00

Date Received: 03/14/25 09:48

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/14/25 11:04	03/14/25 12:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/14/25 11:04	03/14/25 12:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/14/25 11:04	03/14/25 12:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/14/25 11:04	03/14/25 12:51	1
p-Xylene	<0.00199	U	0.00199		mg/Kg		03/14/25 11:04	03/14/25 12:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/14/25 11:04	03/14/25 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/14/25 11:04	03/14/25 12:51	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/14/25 11:04	03/14/25 12:51	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/14/25 12:51	1
Method: SW846 8015 NM - Diese									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/25 19:52	1
Method: SW846 8015B NM - Dies	• •					_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/14/25 10:29	03/14/25 19:52	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0		50.0		malka		03/14/25 10:29	03/14/25 19:52	1
C10-C28)	\50.0	0	50.0		mg/Kg		03/14/23 10.29	03/14/23 19.32	I
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/25 10:29	03/14/25 19:52	1
• · ·	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate			Emito						
		· · · · · ·	70 - 130				03/14/25 10:29	03/14/25 19:52	1
1-Chlorooctane		<u> </u>					03/14/25 10:29 03/14/25 10:29	03/14/25 19:52 03/14/25 19:52	1
1-Chlorooctane o-Terphenyl	92	bhy - Soluble	70 - 130						
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	92 Chromatograp	ohy - Soluble Qualifier	70 - 130	MDL	Unit	D			
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	92 Chromatograp	-	70 - 130 70 - 130	MDL	Unit mg/Kg	<u>D</u>	03/14/25 10:29	03/14/25 19:52	1
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride	92 Chromatograp Result 288	-	70 - 130 70 - 130 RL	MDL		<u> </u>	03/14/25 10:29 Prepared	03/14/25 19:52 Analyzed	1 Dil Fac
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Ilient Sample ID: CS-2 (2"-3	92 Chromatograp Result 288	-	70 - 130 70 - 130 RL	MDL		<u>D</u>	03/14/25 10:29 Prepared	03/14/25 19:52 <u>Analyzed</u> 03/14/25 23:44 ple ID: 880-55	1 Dil Fac
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride lient Sample ID: CS-2 (2"-3 ate Collected: 03/13/25 00:00	92 Chromatograp Result 288	-	70 - 130 70 - 130 RL	MDL		<u>D</u>	03/14/25 10:29 Prepared	03/14/25 19:52 <u>Analyzed</u> 03/14/25 23:44 ple ID: 880-55	1 Dil Fac 1 5645-2
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride lient Sample ID: CS-2 (2"-3 ate Collected: 03/13/25 00:00 ate Received: 03/14/25 09:48	92 Chromatograp Result 288	Qualifier	70 - 130 70 - 130 RL	MDL		<u>D</u>	03/14/25 10:29 Prepared	03/14/25 19:52 <u>Analyzed</u> 03/14/25 23:44 ple ID: 880-55	1 Dil Fac 1 5645-2
1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Elient Sample ID: CS-2 (2"-3 ate Collected: 03/13/25 00:00 ate Received: 03/14/25 09:48 Method: SW846 8021B - Volatile	92 Chromatograp Result 288 ") Organic Comp	Qualifier	70 - 130 70 - 130 RL	MDL	mg/Kg	D	03/14/25 10:29 Prepared	03/14/25 19:52 <u>Analyzed</u> 03/14/25 23:44 ple ID: 880-55	1 Dil Fac 1 5645-2
Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Chlo	92 Chromatograp Result 288 ") Organic Comp	Qualifier ounds (GC) Qualifier	70 - 130 70 - 130 RL 10.1		mg/Kg		03/14/25 10:29 Prepared Lab Sam	03/14/25 19:52 Analyzed 03/14/25 23:44 ple ID: 880-55 Matri	1 Dil Fac 1 5645-2 x: Solid

1,4-Difluorobenzene (Surr)	90		70 - 130		03/14/25 11:04	03/14/25 13:11	1
4-Bromofluorobenzene (Surr)	104		70 - 130		03/14/25 11:04	03/14/25 13:11	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00403	U	0.00403	mg/Kg	03/14/25 11:04	03/14/25 13:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg	03/14/25 11:04	03/14/25 13:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg	03/14/25 11:04	03/14/25 13:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg	03/14/25 11:04	03/14/25 13:11	1
Toluene	< 0.00202	U	0.00202	mg/Kg	03/14/25 11:04	03/14/25 13:11	1
Benzene	< 0.00202	U	0.00202	mg/Kg	03/14/25 11:04	03/14/25 13:11	1

Eurofins Midland

Page 133 of 164

Job ID: 880-55645-1 SDG: Eddy Co, NM

Lab Sample ID: 880-55645-1

Matrix: Solid

5

Released to Imaging: 6/4/2025 10:46:07 AM

Project/Site: Tar Heel 19-18-7 Federal Com 5H

Job ID: 880-55645-1 SDG: Eddy Co, NM

Lab Sample ID: 880-55645-2

Client Sample ID: CS-2 (2"-3") Date Collected: 03/13/25 00:00

Date Received: 03/14/25 09:48

Client: Carmona Resources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/14/25 13:11	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/14/25 20:38	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/14/25 10:29	03/14/25 20:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		03/14/25 10:29	03/14/25 20:38	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/25 10:29	03/14/25 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/14/25 10:29	03/14/25 20:38	1
o-Terphenyl	84		70 - 130				03/14/25 10:29	03/14/25 20:38	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		50.3		mg/Kg			03/15/25 00:01	5

Client Sample ID: CS-3 (2"-3")

Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Method: SW846 8021B - Volatile Organic Compounds (GC) MDL Unit Result Qualifier RL D Prepared Analyzed Dil Fac <0.00200 U 0.00200 03/14/25 11:51 03/14/25 16:48 mg/Kg 1 03/14/25 16:48 <0.00200 U 0.00200 03/14/25 11:51 mg/Kg 1 <0.00200 U 0.00200 03/14/25 11:51 03/14/25 16:48 mg/Kg 1 <0.00401 U m-Xylene & p-Xylene 0.00401 mg/Kg 03/14/25 11:51 03/14/25 16:48 1 <0.00200 U 0.00200 mg/Kg 03/14/25 11:51 03/14/25 16:48 1 <0.00401 U 0.00401 03/14/25 11:51 03/14/25 16:48 mg/Kg 1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	180	S1+	70 - 130	03/14/25 11:51	03/14/25 16:48	1
l	1,4-Difluorobenzene (Surr)	77		70 - 130	03/14/25 11:51	03/14/25 16:48	1
	_						

THE DECK ON

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/14/25 16:48	1
- Method: SW846 8015 NM -	Diesel Range Organ	ics (DRO) (G	SC)						
Method: SW846 8015 NM - Analyte	•••	<mark>ics (DRO) (C</mark> Qualifier	SC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		03/14/25 10:29	03/14/25 20:54	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		03/14/25 10:29	03/14/25 20:54	1
C10-C28)									

Eurofins Midland

Matrix: Solid

5

Matrix: Solid

Project/Site: Tar Heel 19-18-7 Federal Com 5H

Job ID: 880-55645-1 SDG: Eddy Co, NM

Matrix: Solid

5

Lab Sample ID: 880-55645-3

03/14/25 11:51

03/14/25 11:51

03/14/25 17:08

03/14/25 17:08

Client Sample ID: CS-3 (2"-3")

Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

m-Xylene & p-Xylene

o-Xylene

Client: Carmona Resources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/14/25 10:29	03/14/25 20:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/14/25 10:29	03/14/25 20:54	1
o-Terphenyl	88		70 - 130				03/14/25 10:29	03/14/25 20:54	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2650		99.8		mg/Kg			03/15/25 00:07	10
light Sample ID: CS 4 (2" 2	")						Lab Sam	ple ID: 880-5	5645-4
nenii Sample ID: CS-4 (2 - 3)								
ate Collected: 03/13/25 00:00	,							Matri	x: Solid
ate Collected: 03/13/25 00:00 ate Received: 03/14/25 09:48		ounds (GC)						Matri	x: Solic
ate Collected: 03/13/25 00:00 ate Received: 03/14/25 09:48 Method: SW846 8021B - Volatile	Organic Comp	ounds (GC) Qualifier	RL	MDL	Unit	D	Prepared	Matri	x: Solid
ate Collected: 03/13/25 00:00 ate Received: 03/14/25 09:48 Method: SW846 8021B - Volatile Analyte	Organic Comp	Qualifier		MDL	Unit mg/Kg	D	Prepared 03/14/25 11:51		
Client Sample ID: CS-4 (2"-3 bate Collected: 03/13/25 00:00 bate Received: 03/14/25 09:48 Method: SW846 8021B - Volatile Analyte Benzene Toluene	Organic Comp	Qualifier	RL	MDL		<u>D</u>	· · · · · · · · · · · · · · · · · · ·	Analyzed	

Xylenes, Total	<0.00399	U	0.00399	mg/Kg	03/14/25 11:51	03/14/25 17:08	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130		03/14/25 11:51	03/14/25 17:08	1
1,4-Difluorobenzene (Surr)	81		70 - 130		03/14/25 11:51	03/14/25 17:08	1

0.00399

0.00200

mg/Kg

mg/Kg

Method: TAL SOP Total BTEX - Total BTEX Calculation

<0.00399 U

<0.00200 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/14/25 17:08	1

Method: SW846 8015 NM - Diesel F	Range Organic	cs (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/25 21:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/14/25 10:29	03/14/25 21:10	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/14/25 10:29	03/14/25 21:10	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/25 10:29	03/14/25 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				03/14/25 10:29	03/14/25 21:10	1
o-Terphenyl	94		70 - 130				03/14/25 10:29	03/14/25 21:10	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		49.8		mg/Kg			03/15/25 00:12	5

Client Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

Client Sample ID: CS-5 (2"-3") Date Collected: 03/13/25 00:00

Date Received: 03/14/25 09:48

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/14/25 11:51	03/14/25 17:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/14/25 11:51	03/14/25 17:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/14/25 11:51	03/14/25 17:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/14/25 11:51	03/14/25 17:29	
p-Xylene	<0.00201	U	0.00201		mg/Kg		03/14/25 11:51	03/14/25 17:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/14/25 11:51	03/14/25 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130				03/14/25 11:51	03/14/25 17:29	1
1,4-Difluorobenzene (Surr)	76		70 - 130				03/14/25 11:51	03/14/25 17:29	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/14/25 17:29	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (G	iC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/14/25 21:25	1
Method: SW846 8015B NM - Dies Analyte		Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8		49.8		mg/Kg		03/14/25 10:29	03/14/25 21:25	1
GRO)-C6-C10	10.0	0	10.0		mg/rtg		00/11/20 10:20	00/11/20 21:20	
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		03/14/25 10:29	03/14/25 21:25	1
C10-C28)									
Dil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/25 10:29	03/14/25 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				03/14/25 10:29	03/14/25 21:25	1
p-Terphenyl	97		70 - 130				03/14/25 10:29	03/14/25 21:25	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	953		50.4		mg/Kg			03/15/25 00:18	5
lient Sample ID: CS-6 (2"-3	")						Lab Sam	ple ID: 880-5	5645-6
ate Collected: 03/13/25 00:00								Matri	ix: Solid
ate Received: 03/14/25 09:48									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/14/25 11:51	03/14/25 17:49	1
					-				

Job ID: 880-55645-1 SDG: Eddy Co, NM

Lab Sample ID: 880-55645-5

Matrix: Solid

5

Eurofins Midland

Page 136 of 164

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

0.00200

0.00200

0.00400

0.00200

0.00400

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

03/14/25 11:51

03/14/25 11:51

03/14/25 11:51

03/14/25 11:51

03/14/25 11:51

Prepared

03/14/25 11:51

03/14/25 11:51

03/14/25 17:49

03/14/25 17:49

03/14/25 17:49

03/14/25 17:49

03/14/25 17:49

Analyzed

03/14/25 17:49

03/14/25 17:49

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

%Recovery Qualifier

79

170 S1+

1

1

1

1

1

1

1

Dil Fac

Project/Site: Tar Heel 19-18-7 Federal Com 5H

5

Job ID: 880-55645-1 SDG: Eddy Co, NM

Client Sample ID: CS-6 (2"-3") Date Collected: 03/13/25 00:00

Date Received: 03/14/25 09:48

Client: Carmona Resources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/14/25 17:49	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/14/25 21:41	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/14/25 10:29	03/14/25 21:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		03/14/25 10:29	03/14/25 21:41	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/25 10:29	03/14/25 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/14/25 10:29	03/14/25 21:41	1
o-Terphenyl	90		70 - 130				03/14/25 10:29	03/14/25 21:41	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	673		10.1		mg/Kg			03/15/25 00:36	1

Client Sample ID: CS-7 (2"-3")

Date Collected: 03/13/25 00:00

Date Received: 03/14/25 09:48

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		03/14/25 11:51	03/14/25 18:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/14/25 11:51	03/14/25 18:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/14/25 11:51	03/14/25 18:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/14/25 11:51	03/14/25 18:10	1
o-Xylene	0.00310		0.00199		mg/Kg		03/14/25 11:51	03/14/25 18:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/14/25 11:51	03/14/25 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130				03/14/25 11:51	03/14/25 18:10	1
1,4-Difluorobenzene (Surr)	82		70 - 130				03/14/25 11:51	03/14/25 18:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/14/25 18:10	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/25 21:57	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/14/25 10:29	03/14/25 21:57	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/14/25 10:29	03/14/25 21:57	1

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-55645-6 Matrix: Solid

C10-C28)

Project/Site: Tar Heel 19-18-7 Federal Com 5H

Job ID: 880-55645-1 SDG: Eddy Co, NM

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-55645-7

Client Sample ID: CS-7 (2"-3")

Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

Client: Carmona Resources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/25 10:29	03/14/25 21:57	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	112		70 - 130				03/14/25 10:29	03/14/25 21:57	
o-Terphenyl	91		70 - 130				03/14/25 10:29	03/14/25 21:57	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1880		99.0		mg/Kg			03/15/25 00:41	10

Date Collected: 03/13/25 00:00

Date Received: 03/14/25 09:48

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201		mg/Kg		03/14/25 11:51	03/14/25 18:30	1
Toluene	0.00573		0.00201		mg/Kg		03/14/25 11:51	03/14/25 18:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/14/25 11:51	03/14/25 18:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/14/25 11:51	03/14/25 18:30	1
o-Xylene	0.00283		0.00201		mg/Kg		03/14/25 11:51	03/14/25 18:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/14/25 11:51	03/14/25 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130				03/14/25 11:51	03/14/25 18:30	1
1,4-Difluorobenzene (Surr)	77		70 - 130				03/14/25 11:51	03/14/25 18:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00856		0.00402		mg/Kg			03/14/25 18:30	1

Method: SW846 8015 NM - Diesel R	ange Organics (DRO)) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	97.8	49.8	mg/Kg			03/14/25 22:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/14/25 10:29	03/14/25 22:12	1
(GRO)-C6-C10									
Diesel Range Organics (Over	97.8		49.8		mg/Kg		03/14/25 10:29	03/14/25 22:12	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/25 10:29	03/14/25 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/14/25 10:29	03/14/25 22:12	1
o-Terphenyl	86		70 - 130				03/14/25 10:29	03/14/25 22:12	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		101		mg/Kg			03/15/25 00:47	10

5

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-55645-1	CS-1 (2"-3")	99	89		
880-55645-1 MS	CS-1 (2"-3")	95	92		6
880-55645-1 MSD	CS-1 (2"-3")	99	94		- 2
880-55645-2	CS-2 (2"-3")	104	90		
880-55645-3	CS-3 (2"-3")	180 S1+	77		
880-55645-4	CS-4 (2"-3")	171 S1+	81		5
880-55645-5	CS-5 (2"-3")	178 S1+	76		
880-55645-6	CS-6 (2"-3")	170 S1+	79		
880-55645-7	CS-7 (2"-3")	177 S1+	82		
880-55645-8	CS-8 (2"-3")	182 S1+	77		
890-7809-A-1-E MS	Matrix Spike	158 S1+	82		
890-7809-A-1-F MSD	Matrix Spike Duplicate	163 S1+	81		
LCS 880-105302/1-A	Lab Control Sample	157 S1+	86		
LCS 880-105315/1-A	Lab Control Sample	96	94		
LCSD 880-105302/2-A	Lab Control Sample Dup	157 S1+	87		
LCSD 880-105315/2-A	Lab Control Sample Dup	97	94		
MB 880-105302/5-A	Method Blank	146 S1+	76		
MB 880-105315/5-A	Method Blank	97	84		
Surrogate Legend					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-55645-1	CS-1 (2"-3")	117	92	
880-55645-1 MS	CS-1 (2"-3")	105	96	
880-55645-1 MSD	CS-1 (2"-3")	112	102	
880-55645-2	CS-2 (2"-3")	104	84	
880-55645-3	CS-3 (2"-3")	109	88	
880-55645-4	CS-4 (2"-3")	113	94	
880-55645-5	CS-5 (2"-3")	115	97	
880-55645-6	CS-6 (2"-3")	106	90	
880-55645-7	CS-7 (2"-3")	112	91	
880-55645-8	CS-8 (2"-3")	105	86	
LCS 880-105305/2-A	Lab Control Sample	138 S1+	138 S1+	
LCSD 880-105305/3-A	Lab Control Sample Dup	133 S1+	134 S1+	
MB 880-105305/1-A	Method Blank	122	111	
Surrogate Legend				

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 880-5564	5-1
SDG: Eddy Co,	NM

Prep Type: Total/NA

Lab Sample ID: MB 880-105302/5-A

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid								Prep Type: 1	Total/NA
Analysis Batch: 105279								Prep Batch:	105302
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/14/25 09:51	03/14/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/14/25 09:51	03/14/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/14/25 09:51	03/14/25 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/14/25 09:51	03/14/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/14/25 09:51	03/14/25 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/14/25 09:51	03/14/25 11:49	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				03/14/25 09:51	03/14/25 11:49	1
1,4-Difluorobenzene (Surr)	76		70 - 130				03/14/25 09:51	03/14/25 11:49	1

Lab Sample ID: LCS 880-105302/1-A Matrix: Solid

Analysis Batch: 105279

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	
Toluene	0.100	0.1085		mg/Kg		109	70 - 130	
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2335		mg/Kg		117	70 - 130	
o-Xylene	0.100	0.1152		mg/Kg		115	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-105302/2-A

Matrix: Solid Inche Detel

Analysis Batch: 105279							Prep I	Batch: 1	05302
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1055		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.1096		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1086		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2352		mg/Kg		118	70 - 130	1	35
o-Xylene	0.100	0.1165		mg/Kg		116	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-7809-A-1-E MS

Matrix: Solid alveie Rotoby 405270

Analysis Batch: 105279									Prep	Batch: 105302
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.09704		mg/Kg		97	70 - 130	
Toluene	<0.00200	U	0.100	0.1005		mg/Kg		100	70 - 130	

Eurofins Midland

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Job ID: 880-55645-1 SDG: Eddy Co, NM

Prep Batch: 105302

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

13

Released to Imaging: 6/4/2025 10:46:07 AM

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H Job ID: 880-55645-1 SDG: Eddy Co, NM

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

•	1-E MS										Client S	Sample ID		
Matrix: Solid													Type: To	
Analysis Batch: 105279												Prep I	Batch: "	10530
	Sample	Sam	ple	Spike	MS	MS						%Rec		
nalyte	Result		lifier	Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
thylbenzene	<0.00200	U		0.100	0.09836			mg/Kg			98	70 - 130		
n-Xylene & p-Xylene	<0.00399	U		0.200	0.2131			mg/Kg			107	70 - 130		
-Xylene	<0.00200	U		0.100	0.1056			mg/Kg			106	70 - 130		
		MS	lifian	l incite										
Surrogate		Qual S1+	imer	Limits										
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr)	158 82	57+		70 - 130 70 - 130										
														
.ab Sample ID: 890-7809-A-1 latrix: Solid									Cilei	nt Sa	imple ID:	Matrix Sp		
													Type: To Batch: *	
Analysis Batch: 105279	Sample	Sam	nlo	Spike	MSD	MSD						%Rec	batch.	RF
nalyte	Result		•	Added	Result			Unit		D	%Rec	Limits	RPD	Lin
enzene	<0.00200			0.100	0.1034	Quai	liller			<u> </u>	103	70 - 130	6	
oluene	<0.00200			0.100	0.1034			mg/Kg			103	70 - 130 70 - 130	2	
	<0.00200			0.100	0.1025			mg/Kg			103	70 - 130 70 - 130	2	
thylbenzene								mg/Kg						
n-Xylene & p-Xylene	< 0.00399			0.200	0.2220			mg/Kg			111	70 - 130	4	
-Xylene	<0.00200			0.100	0.1101			mg/Kg			110	70 - 130	4	
	MSD	MSD)											
urrogate		Qual	lifier	l imits										
	%Recovery	Qual	lifier	Limits										
-Bromofluorobenzene (Surr)	%Recovery 163	Qual S1+	lifier	70 - 130										
-Bromofluorobenzene (Surr)	%Recovery		lifier											
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr)	%Recovery 163 81		lifier	70 - 130							Client Sa	ample ID:	Method	l Blar
Surrogate -Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: MB 880-1053 Aatrix: Solid	%Recovery 163 81		lifier	70 - 130							Client Sa	ample ID: Prep T		
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: MB 880-1053	%Recovery 163 81		lifier	70 - 130							Client Sa	Prep T	Method Type: To Batch: ′	otal/N
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ab Sample ID: MB 880-1053 latrix: Solid analysis Batch: 105281	%Recovery 163 81 315/5-A	<u>S</u> 1+ МВ	МВ	70 - 130 70 - 130								Prep T Prep E	Type: To Batch: <i>'</i>	otal/N 1053 [,]
Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) .ab Sample ID: MB 880-1053 Matrix: Solid Analysis Batch: 105281 malyte	%Recovery 163 81 315/5-A Re	MB esult	MB Qualifier	70 - 130 70 - 130 		MDL			D	Pr	repared	Prep T Prep E Analyz	Type: To Batch: '	otal/N 1053 [,]
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ab Sample ID: MB 880-1053 latrix: Solid nalysis Batch: 105281 nalyte enzene	%Recovery 163 81 315/5-A Re <0.00	MB esult	MB Qualifier U	70 - 130 70 - 130 		MDL	mg/Kg		<u>D</u>	Pr 03/14	r epared 4/25 11:04	Prep T Prep E Analyz 03/14/25	Type: To Batch: 7 2ed 12:29	otal/N 1053 ⁻
-Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) .ab Sample ID: MB 880-1053 Matrix: Solid Analysis Batch: 105281 .nalyte enzene oluene	%Recovery 163 81 315/5-A 315/5-A	MB esult 0200 0200	MB Qualifier U U	70 - 130 70 - 130 RL 0.00200 0.00200		MDL	mg/Kg mg/Kg		<u>D</u>	Pr 03/14 03/14	r epared 4/25 11:04 4/25 11:04	Prep T Prep E 03/14/25 03/14/25	Type: To Batch: ' red 12:29 12:29	otal/N 1053 ⁻
Brownofluorobenzene (Surr) A-Difluorobenzene (Surr) Ab Sample ID: MB 880-1053 Matrix: Solid Malysis Batch: 105281 malyte enzene oluene thylbenzene	<u>%Recovery</u> 163 81 315/5-A 81 315/5-A Re <0.00 <0.00 <0.00	MB esult 0200 0200	MB Qualifier U U U	70 - 130 70 - 130 RL 0.00200 0.00200 0.00200		MDL	mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 03/14 03/14 03/14	repared 4/25 11:04 4/25 11:04 4/25 11:04	Prep T Prep E 03/14/25 03/14/25	Type: To Batch: 7 red 12:29 12:29 12:29	otal/N 1053 ⁻
-Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) .ab Sample ID: MB 880-1053 Matrix: Solid Analysis Batch: 105281 malyte enzene oluene thylbenzene -Xylene & p-Xylene	%Recovery 163 81 315/5-A Re <0.00	MB sult 200 200 200 200	MB Qualifier U U U U	70 - 130 70 - 130 RL 0.00200 0.00200 0.00200 0.00200 0.00200		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 03/14 03/14 03/14 03/14	repared 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04	Prep 1 Prep 2 03/14/25 03/14/25 03/14/25 03/14/25	Type: To Batch: 7 12:29 12:29 12:29 12:29	otal/N 1053 ⁻
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ab Sample ID: MB 880-1053 latrix: Solid nalysis Batch: 105281 nalyte enzene bluene thylbenzene -Xylene & p-Xylene Xylene	<u>%Recovery</u> 163 81 315/5-A Re <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	MB esult 1200 1200 1200 1200	MB Qualifier U U U U U	70 - 130 70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00200		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 03/14 03/14 03/14 03/14	repared 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04	Analyz 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25	Type: To Batch: 7 red 12:29 12:29 12:29 12:29 12:29 12:29 12:29	otal/N 1053
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ab Sample ID: MB 880-1053 latrix: Solid malysis Batch: 105281 malyte enzene bluene thylbenzene Xylene & p-Xylene Xylene	%Recovery 163 81 315/5-A Re <0.00	MB esult 1200 1200 1200 1200	MB Qualifier U U U U U	70 - 130 70 - 130 RL 0.00200 0.00200 0.00200 0.00200 0.00200		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 03/14 03/14 03/14 03/14	repared 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04	Prep 1 Prep 2 03/14/25 03/14/25 03/14/25 03/14/25	Type: To Batch: 7 red 12:29 12:29 12:29 12:29 12:29 12:29 12:29	otal/N 1053
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ab Sample ID: MB 880-1053 latrix: Solid analysis Batch: 105281 malyte enzene bluene thylbenzene -Xylene & p-Xylene Xylene ylenes, Total	%Recovery 163 81 315/5-A Re <0.00	MB ssult b200 b200 <	MB Qualifier U U U U U U U U MB	70 - 130 70 - 130 70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00200 0.00400		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 03/14 03/14 03/14 03/14 03/14	repared 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04	Analyz 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25	Type: To Batch: 7 12:29 12:29 12:29 12:29 12:29 12:29 12:29	Dil F
-Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) .ab Sample ID: MB 880-1053 Matrix: Solid Analysis Batch: 105281 malyte enzene oluene thylbenzene h-Xylene & p-Xylene -Xylene ylenes, Total urrogate	%Recovery 163 81 315/5-A Re <0.00	MB ssult 9200 9200 9200 9200 9200 9200 9200 9200 9200 9200 9200 9400 9400 9400 9400 9400 9400	MB Qualifier U U U U U U U	70 - 130 70 - 130 70 - 130 RL 0.00200 0.00200 0.00400 0.00200 0.00400 0.00200 0.00400		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	Pr 03/14 03/14 03/14 03/14 03/14 03/14 Pr	repared 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04	Analyz 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25	Type: To Batch: 7 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29	otal/N
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ab Sample ID: MB 880-1053 Matrix: Solid	%Recovery 163 81 315/5-A Re <0.00	MB ssult b200 b200 <	MB Qualifier U U U U U U U U MB	70 - 130 70 - 130 70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00200 0.00400		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u> .	Pr 03/14 03/14 03/14 03/14 03/14 03/14 Pr 03/14	repared 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04 4/25 11:04	Analyz 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25	Type: To Batch: * red 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29	Dil F
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) ab Sample ID: MB 880-1053 latrix: Solid nalysis Batch: 105281 nalyte enzene bluene thylbenzene -Xylene & p-Xylene Xylene ylenes, Total urrogate Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr)	%Recovery 163 81 315/5-A Re <0.00	S1+ MB esuit b2000 b2000	MB Qualifier U U U U U U U U MB	70 - 130 70 - 130 70 - 130 RL 0.00200 0.00200 0.00400 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 70 - 130		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		·	Pr 03/14 03/14 03/14 03/14 03/14 03/14 03/14	repared 4/25 4/25 4/25 4/25 4/25 4/25 4/25 4/25 4/25 4/25 4/25 11:04 4/25 4/25 11:04 4/25 11:04 4/25 11:04 4/25 4/25 11:04 4/25 11:04 4/25 4/25 11:04	Analyz 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25	Type: To Batch: * red 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29	Dil F
-Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) .ab Sample ID: MB 880-1053 Matrix: Solid Analysis Batch: 105281 malyte enzene oluene thylbenzene h-Xylene & p-Xylene -Xylene ylenes, Total urrogate -Bromofluorobenzene (Surr)	%Recovery 163 81 315/5-A Re <0.00	S1+ MB esuit b2000 b2000	MB Qualifier U U U U U U U U MB	70 - 130 70 - 130 70 - 130 RL 0.00200 0.00200 0.00400 0.00200 0.00400 0.00200 0.00400 <u>Limits</u> 70 - 130		MDL	mg/Kg mg/Kg mg/Kg mg/Kg		·	Pr 03/14 03/14 03/14 03/14 03/14 03/14 03/14	repared 4/25 4/25 4/25 4/25 4/25 4/25 4/25 4/25 4/25 4/25 4/25 11:04 4/25 4/25 11:04 4/25 11:04 4/25 11:04 4/25 4/25 11:04 4/25 11:04 4/25 4/25 11:04	Prep T Prep E 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25 03/14/25	Type: To Batch: * red 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29 12:29	Dil F

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09014		mg/Kg		90	70 - 130	
Toluene	0.100	0.08492		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.09333		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1898		mg/Kg		95	70 - 130	

Eurofins Midland

Lab Sample ID: LCS 880-105315/1-A

Matrix: Solid

QC Sample Results

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H Job ID: 880-55645-1 SDG: Eddy Co, NM

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

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

Matrix: Solid										Type: To	
Analysis Batch: 105281										Batch: 1	05315
			Spike		LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
o-Xylene			0.100	0.09674		mg/Kg		97	70 - 130		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								
Lab Sample ID: LCSD 880-1	05315/2-A					Clie	nt Sam	ple ID: I	Lab Contro	ol Sample	e Dup
Matrix: Solid									Prep 1	Type: Tot	tal/N/
Analysis Batch: 105281									Prep	Batch: 1	0531
			Spike	LCSD	LCSD				%Rec		RPI
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene			0.100	0.09134		mg/Kg		91	70 - 130	1	35
Toluene			0.100	0.08593		mg/Kg		86	70 - 130	1	35
Ethylbenzene			0.100	0.09432		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1912		mg/Kg		96	70 - 130	1	35
o-Xylene			0.100	0.09770		mg/Kg		98	70 - 130	1	35
_		LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								
Lab Sample ID: 880-55645-1											
Lap Sample ID. 000-55045-	IMS							Client	t Sample IE): CS-1 (2"-3"
	IMS							Client	t Sample IE Prep 1		
Matrix: Solid	IMS							Client	Prep 1	Type: Tot	tal/NA
Matrix: Solid		Sample	Spike	MS	MS			Client	Prep 1		tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte	Sample	Sample Qualifier	Spike Added		MS Qualifier	Unit	D	Client %Rec	Prep Prep	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281	Sample	Qualifier					D		Prep Prep %Rec	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte	Sample Result	Qualifier	Added	Result		- <mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec	Prep Prep %Rec Limits	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene	Sample 	Qualifier U U	Added	Result 0.08836		mg/Kg mg/Kg	<u>D</u>	%Rec 89	Prep Prep %Rec Limits 70 - 130	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00199 <0.00199 <0.00199	Qualifier U U U	Added 0.0992 0.0992 0.0992	Result 0.08836 0.08279 0.08783		mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 89 83	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00199 <0.00199 <0.00199 <0.00398	Qualifier U U U U	Added 0.0992 0.0992 0.0992 0.198	Result 0.08836 0.08279 0.08783 0.1814		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 89 83 89 91	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00199 <0.00199 <0.00199	Qualifier U U U U	Added 0.0992 0.0992 0.0992	Result 0.08836 0.08279 0.08783		mg/Kg mg/Kg mg/Kg	D	%Rec 89 83 89	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS	Qualifier U U U U U U U MS	Added 0.0992 0.0992 0.0992 0.198	Result 0.08836 0.08279 0.08783 0.1814		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 89 83 89 91	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery	Qualifier U U U U U U U MS	Added 0.0992 0.0992 0.0992 0.198 0.0992 Limits	Result 0.08836 0.08279 0.08783 0.1814		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 89 83 89 91	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 95	Qualifier U U U U U U U MS	Added 0.0992 0.0992 0.0992 0.198 0.0992 198 0.0992	Result 0.08836 0.08279 0.08783 0.1814		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 89 83 89 91	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery	Qualifier U U U U U U U MS	Added 0.0992 0.0992 0.0992 0.198 0.0992 Limits	Result 0.08836 0.08279 0.08783 0.1814		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 89 83 89 91	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot	tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 95 92	Qualifier U U U U U U U MS	Added 0.0992 0.0992 0.0992 0.198 0.0992 198 0.0992	Result 0.08836 0.08279 0.08783 0.1814		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 89 83 89 91 94	Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot Batch: 1	tal/NA 05315
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 95 92	Qualifier U U U U U U U MS	Added 0.0992 0.0992 0.0992 0.198 0.0992 198 0.0992	Result 0.08836 0.08279 0.08783 0.1814		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 89 83 89 91 94	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tof Batch: 10	tal/NA 05315 2"-3")
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1 Matrix: Solid	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 95 92	Qualifier U U U U U U U MS	Added 0.0992 0.0992 0.0992 0.198 0.0992 198 0.0992	Result 0.08836 0.08279 0.08783 0.1814		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 89 83 89 91 94	Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tof Batch: 10 D: CS-1 (Type: Tof	tal/NA 05315 2"-3"/ tal/NA
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1	Sample Result <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 95 92 I MSD	Qualifier U U U U U MS Qualifier	Added 0.0992 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992	Result 0.08836 0.08279 0.08783 0.1814 0.09332	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 89 83 89 91 94	Prep 7 %Rec Limits 70 - 130 70 - 190 70 - 190	Type: Tof Batch: 10	tal/NA 05315 2"-3") tal/NA 05315
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1 Matrix: Solid Analysis Batch: 105281	Sample Result <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 95 92 I MSD Sample	Qualifier UUUUUUUUUUUUUUUSAAAAAAAAAAAAAAAAAAAAAA	Added 0.0992 0.0992 0.198 0.0992 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 0.08836 0.08279 0.08783 0.1814 0.09332 MSD	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 89 83 89 91 94 Client	Prep 7 %Rec Limits 70 - 130 70 - 190 70 - 130 70 - 190 70 - 190	D: CS-1 (Fype: Tot Batch: 10 D: CS-1 (Fype: Tot Batch: 10	tal/NA 05315 2"-3") tal/NA 05315 RPD
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1 Matrix: Solid Analysis Batch: 105281 Analyte	Sample Result <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 95 92 I MSD Sample Result	Qualifier U U U U U MS Qualifier Sample Qualifier	Added 0.0992 0.0992 0.198 0.0992 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 0.08836 0.08279 0.08783 0.1814 0.09332 MSD Result	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg Unit	D	%Rec 89 83 89 91 94 Client	Prep 7 %Rec Limits 70 - 130 70 - 190 70 - 130 70 - 100 70 - 100	D: CS-1 (Type: Tot D: CS-1 (Type: Tot Batch: 10 RPD	tal/NA 05315 2"-3") tal/NA 05315 RPC Limi
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1 Matrix: Solid Analysis Batch: 105281 Analyte Benzene	Sample Result <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 95 92 MSD Sample Result <0.00199	Qualifier U U U U U MS Qualifier U	Added 0.0992 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 5000000000000000000000000000000000000	Result 0.08836 0.08279 0.08783 0.1814 0.09332	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg Unit mg/Kg		%Rec 89 83 89 91 94 Client %Rec 90	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tof Batch: 10	2"-3") tal/NA 05315 2"-3") tal/NA 05315 RPC Limit
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1 Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene	Sample Result <0.00199 <0.00199 <0.00398 <0.00398 <0.00199 MS %Recovery 95 92 I MSD Sample Result <0.00199 <0.00199	Qualifier U U U U U U MS Qualifier U U U	Added 0.0992 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100	Result 0.08836 0.08279 0.08783 0.1814 0.09332 MSD Result 0.08980 0.08985	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 89 83 89 91 94 Client %Rec 90 83 89	Prep 7 %Rec Limits 70 - 130 70 - 130 %Rec Limits 70 - 130 70 - 130	Type: Tof Batch: 10	2"-3") 2315 2"-3") tal/NA 05315 RPD Limit 35 35
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1 Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00199 <0.00199 <0.00398 <0.00398 <0.00199 MS %Recovery 95 92 MSD Sample Result <0.00199 <0.00199 <0.00199	Qualifier U U U U U U U MS Qualifier U U U U	Added 0.0992 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 Limits 70 - 130 70 - 130 70 - 130 70 - 130 0.100 0.100 0.100 0.100	Result 0.08836 0.08279 0.08783 0.1814 0.09332 MSD Result 0.08980 0.08325 0.09047	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 89 83 89 91 94 Client %Rec 90 83 90	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tot Batch: 10	2"-3") 2"-3") tal/NA 05315 RPD Limit 35 35 35
Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-55645-1 Matrix: Solid Analysis Batch: 105281 Analyte Benzene Toluene	Sample Result <0.00199 <0.00199 <0.00398 <0.00398 <0.00199 MS %Recovery 95 92 I MSD Sample Result <0.00199 <0.00199	Qualifier U U U U U U U U U S ample Qualifier U U U U	Added 0.0992 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 0.0992 0.198 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100	Result 0.08836 0.08279 0.08783 0.1814 0.09332 MSD Result 0.08980 0.08985	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 89 83 89 91 94 Client %Rec 90 83 89	Prep 7 %Rec Limits 70 - 130 70 - 130 %Rec Limits 70 - 130 70 - 130	Type: Tof Batch: 10	tal/NA 05315 2"-3") tal/NA

Eurofins Midland

QC Sample Results

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

				-								
Lab Sample ID: 880-55645-1 M	SD								Client	Sample ID: 0		
Matrix: Solid										Prep Typ		
Analysis Batch: 105281										Prep Ba	tch: 1	0531
	MSD MS	SD										
Surrogate	%Recovery Qu	alifier	Limits									
4-Bromofluorobenzene (Surr)	99		70 - 130									
1,4-Difluorobenzene (Surr)	94		70 - 130									
lethod: 8015B NM - Diese	I Range Orga	nics (DF	RO) (GC)									
Lab Sample ID: MB 880-10530									Client S	ample ID: Me	thed	Plan
Matrix: Solid	5/1-A								Client 3	Prep Typ		
										Prep Ba		
Analysis Batch: 105297	м	з мв								Ртер Ба	ich. I	0530
Analyte		t Qualifier	RL		мп	Unit		D	Prepared	Analyzed		Dil Fa
Gasoline Range Organics	Kesul <50.0					mg/Kg			14/25 10:28			DIIFa
(GRO)-C6-C10	-50.1		50.0			iiig/itg		03/	1720 10.20	00/14/20 19.		
Diesel Range Organics (Over	<50.0	0 U	50.0			mg/Kg		03/	14/25 10:28	03/14/25 19:	03	
C10-C28)												
Dil Range Organics (Over C28-C36)	<50.0	0 U	50.0			mg/Kg		03/	14/25 10:28	03/14/25 19:	03	
		3 <i>MB</i>										
Surrogate	·	Qualifier	Limits						Prepared	Analyzed		Dil Fa
1-Chlorooctane	12.		70 - 130						/14/25 10:28			
p-Terphenyl	11	1	70 - 130					03/	/14/25 10:28	03/14/25 19:	03	
Lab Sample ID: LCS 880-10530	05/2-A							Clien	t Sample	ID: Lab Cont	trol Sa	ampl
Matrix: Solid										Prep Typ		
Analysis Batch: 105297										Prep Ba		
			Spike	LCS	LCS	5				%Rec		
Analyte			Added	Result	Qua	lifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	1017			mg/Kg		102	70 - 130		
GRO)-C6-C10												
Diesel Range Organics (Over			1000	1103			mg/Kg		110	70 - 130		
C10-C28)												
	LCS LC	s										
Surrogate	%Recovery Qu	alifier	Limits									
1-Chlorooctane	138 S1		70 - 130									
o-Terphenyl	138 S1	+	70 - 130									
Lab Sample ID: LCSD 880-105	305/3-4						CI	ant Sa	nnlo ID: I	ab Control S	ampl	יים ה
Matrix: Solid							Cill	ont odi	inpie iD. L	Prep Typ		
										Prep Ba		
Analysis Batch: 105297			Spike	LCSD	100	:n				Ярана Крас	icii. T	USSU RP
Analyte			Added	Result			Unit	D	%Rec	%Rec	RPD	Lim
Gasoline Range Organics			1000	989.5	Gud		mg/Kg			70 - 130	3	2
Gasoline Range Organics (GRO)-C6-C10			1000	509.0			myrxy		33	10 - 130	3	2
			1000							=0.000		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 _ 130
o-Terphenyl	134	S1+	70 - 130

Eurofins Midland

2

20

Job ID: 880-55645-1 SDG: Eddy Co, NM

Diesel Range Organics (Over

C10-C28)

1000

1087

mg/Kg

109

70 - 130

Lab Sample ID: 880-55645-1 MS

Lab Sample ID: 880-55645-1 MSD

Analysis Batch: 105297

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 105297

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

QC Sample Results

MS MS

MSD MSD

819.4

830.1

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

82

83

Spike

Added

999

999

Limits 70 - 130

70 - 130

Spike

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

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

Sample Sample

<50.0 U

<50.0 U

105

96

Sample Sample

%Recovery

MS MS

Qualifier

Result Qualifier

Prep Type: Total/NA

Prep Batch: 105305

Client Sample ID: CS-1 (2"-3")

%Rec

Limits

70 - 130

70 - 130

5
7
8
9

20

20

Client Sample ID: CS-1 (2"-3")
Prep Type: Total/NA
Prep Batch: 105305
%Rec RPD

	Prep I	Batch: 1	05305
	%Rec		RPD
Rec	Limits	RPD	Limit

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics	<50.0	U	999	931.4		mg/Kg		93	70 - 130	13
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	999	907.5		mg/Kg		91	70 - 130	9
C10-C28)										
	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	112		70 - 130							
o-Terphenyl	102		70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-105321/1-A					Client Sample ID: Method Blank Prep Type: Soluble								
Matrix: Solid											Prep 1	ype: S	oluble
Analysis Batch: 105325													
		MB											
Analyte	Result	Qualifier		RL		MDL	Unit		D F	Prepared	Analyze	d	Dil Fac
Chloride	<10.0	U		10.0			mg/Kg				03/14/25 23	3:26	1
Lab Sample ID: LCS 880-105321/2-A									Clien	t Sample	D: Lab Co	ntrol S	ample
Matrix: Solid											Prep T	ype: S	oluble
Analysis Batch: 105325													
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qual	ifier	Unit	D	%Rec	Limits		
Chloride			250		258.8			mg/Kg		104	90 - 110		
Lab Sample ID: LCSD 880-105321/3-A								CI	ient San	nple ID:	Lab Control	Sampl	e Dup
Matrix: Solid											Prep T	ype: S	oluble
Analysis Batch: 105325													
			Spike		LCSD	LCSI	D				%Rec		RPD
Analyte			Added		Result	Qual	ifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		259.7			mg/Kg		104	90 _ 110	0	20

Released to Imaging: 6/4/2025 10:46:07 AM
Job ID: 880-55645-1 SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-55645-1 MS Matrix: Solid								Client	Sample ID Prep): CS-1 (Type: S	· ·
Analysis Batch: 105325											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	288		253	557.6		mg/Kg		107	90 - 110		
Lab Sample ID: 880-55645-1 MSD								Client	Sample ID): CS-1 ((2"-3")
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 105325											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	288		253	534.4		mg/Kg		98	90 - 110	4	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H Job ID: 880-55645-1 SDG: Eddy Co, NM

GC VOA

Analysis Batch: 105279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55645-3	CS-3 (2"-3")	Total/NA	Solid	8021B	105302
880-55645-4	CS-4 (2"-3")	Total/NA	Solid	8021B	105302
880-55645-5	CS-5 (2"-3")	Total/NA	Solid	8021B	105302
880-55645-6	CS-6 (2"-3")	Total/NA	Solid	8021B	105302
880-55645-7	CS-7 (2"-3")	Total/NA	Solid	8021B	105302
880-55645-8	CS-8 (2"-3")	Total/NA	Solid	8021B	105302
MB 880-105302/5-A	Method Blank	Total/NA	Solid	8021B	105302
LCS 880-105302/1-A	Lab Control Sample	Total/NA	Solid	8021B	105302
LCSD 880-105302/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105302
890-7809-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	105302
890-7809-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	105302

Analysis Batch: 105281

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
880-55645-1	CS-1 (2"-3")	Total/NA	Solid	8021B	105315	
880-55645-2	CS-2 (2"-3")	Total/NA	Solid	8021B	105315	
MB 880-105315/5-A	Method Blank	Total/NA	Solid	8021B	105315	
LCS 880-105315/1-A	Lab Control Sample	Total/NA	Solid	8021B	105315	
LCSD 880-105315/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105315	
880-55645-1 MS	CS-1 (2"-3")	Total/NA	Solid	8021B	105315	
880-55645-1 MSD	CS-1 (2"-3")	Total/NA	Solid	8021B	105315	

Prep Batch: 105302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55645-3	CS-3 (2"-3")	Total/NA	Solid	5035	
880-55645-4	CS-4 (2"-3")	Total/NA	Solid	5035	
880-55645-5	CS-5 (2"-3")	Total/NA	Solid	5035	
880-55645-6	CS-6 (2"-3")	Total/NA	Solid	5035	
880-55645-7	CS-7 (2"-3")	Total/NA	Solid	5035	
880-55645-8	CS-8 (2"-3")	Total/NA	Solid	5035	
MB 880-105302/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105302/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105302/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7809-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-7809-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 105315

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-55645-1	CS-1 (2"-3")	Total/NA	Solid	5035	
880-55645-2	CS-2 (2"-3")	Total/NA	Solid	5035	
MB 880-105315/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105315/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105315/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55645-1 MS	CS-1 (2"-3")	Total/NA	Solid	5035	
880-55645-1 MSD	CS-1 (2"-3")	Total/NA	Solid	5035	

Analysis Batch: 105406

Lab Sample ID 880-55645-1	Client Sample ID CS-1 (2"-3")	Prep Type Total/NA	Matrix Solid	Total BTEX	Prep Batch
880-55645-2	CS-2 (2"-3")	Total/NA	Solid	Total BTEX	
880-55645-3	CS-3 (2"-3")	Total/NA	Solid	Total BTEX	

5

8 9

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

GC VOA (Continued)

Analysis Batch: 105406 (Continued)

Lab Sample ID 880-55645-4	Client Sample ID CS-4 (2"-3")	Prep Type Total/NA	Matrix	Method Total BTEX	Prep Batch
880-55645-5	CS-5 (2"-3")	Total/NA	Solid	Total BTEX	
880-55645-6	CS-6 (2"-3")	Total/NA	Solid	Total BTEX	
880-55645-7	CS-7 (2"-3")	Total/NA	Solid	Total BTEX	
880-55645-8	CS-8 (2"-3")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 105297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-55645-1	CS-1 (2"-3")	Total/NA	Solid	8015B NM	105305	
880-55645-2	CS-2 (2"-3")	Total/NA	Solid	8015B NM	105305	
880-55645-3	CS-3 (2"-3")	Total/NA	Solid	8015B NM	105305	
880-55645-4	CS-4 (2"-3")	Total/NA	Solid	8015B NM	105305	
880-55645-5	CS-5 (2"-3")	Total/NA	Solid	8015B NM	105305	
880-55645-6	CS-6 (2"-3")	Total/NA	Solid	8015B NM	105305	
880-55645-7	CS-7 (2"-3")	Total/NA	Solid	8015B NM	105305	
880-55645-8	CS-8 (2"-3")	Total/NA	Solid	8015B NM	105305	
MB 880-105305/1-A	Method Blank	Total/NA	Solid	8015B NM	105305	
LCS 880-105305/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105305	
LCSD 880-105305/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105305	
880-55645-1 MS	CS-1 (2"-3")	Total/NA	Solid	8015B NM	105305	
880-55645-1 MSD	CS-1 (2"-3")	Total/NA	Solid	8015B NM	105305	

Prep Batch: 105305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55645-1	CS-1 (2"-3")	Total/NA	Solid	8015NM Prep	
880-55645-2	CS-2 (2"-3")	Total/NA	Solid	8015NM Prep	
880-55645-3	CS-3 (2"-3")	Total/NA	Solid	8015NM Prep	
880-55645-4	CS-4 (2"-3")	Total/NA	Solid	8015NM Prep	
880-55645-5	CS-5 (2"-3")	Total/NA	Solid	8015NM Prep	
880-55645-6	CS-6 (2"-3")	Total/NA	Solid	8015NM Prep	
880-55645-7	CS-7 (2"-3")	Total/NA	Solid	8015NM Prep	
880-55645-8	CS-8 (2"-3")	Total/NA	Solid	8015NM Prep	
MB 880-105305/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105305/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105305/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55645-1 MS	CS-1 (2"-3")	Total/NA	Solid	8015NM Prep	
880-55645-1 MSD	CS-1 (2"-3")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105373

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-55645-1	CS-1 (2"-3")	Total/NA	Solid	8015 NM	
880-55645-2	CS-2 (2"-3")	Total/NA	Solid	8015 NM	
880-55645-3	CS-3 (2"-3")	Total/NA	Solid	8015 NM	
880-55645-4	CS-4 (2"-3")	Total/NA	Solid	8015 NM	
880-55645-5	CS-5 (2"-3")	Total/NA	Solid	8015 NM	
880-55645-6	CS-6 (2"-3")	Total/NA	Solid	8015 NM	
880-55645-7	CS-7 (2"-3")	Total/NA	Solid	8015 NM	
880-55645-8	CS-8 (2"-3")	Total/NA	Solid	8015 NM	

5

Job ID: 880-55645-1

SDG: Eddy Co, NM

QC Association Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

SDG: Eddy Co, NM

Job ID: 880-55645-1

HPLC/IC

Leach Batch: 105321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55645-1	CS-1 (2"-3")	Soluble	Solid	DI Leach	
880-55645-2	CS-2 (2"-3")	Soluble	Solid	DI Leach	
880-55645-3	CS-3 (2"-3")	Soluble	Solid	DI Leach	
880-55645-4	CS-4 (2"-3")	Soluble	Solid	DI Leach	
880-55645-5	CS-5 (2"-3")	Soluble	Solid	DI Leach	
880-55645-6	CS-6 (2"-3")	Soluble	Solid	DI Leach	
880-55645-7	CS-7 (2"-3")	Soluble	Solid	DI Leach	
880-55645-8	CS-8 (2"-3")	Soluble	Solid	DI Leach	
MB 880-105321/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105321/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105321/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55645-1 MS	CS-1 (2"-3")	Soluble	Solid	DI Leach	
880-55645-1 MSD	CS-1 (2"-3")	Soluble	Solid	DI Leach	

Analysis Batch: 105325

880-55645-7	CS-7 (2"-3")	Soluble	Solid	DI Leach		
880-55645-8	CS-8 (2"-3")	Soluble	Solid	DI Leach		8
MB 880-105321/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-105321/2-A	Lab Control Sample	Soluble	Solid	DI Leach		9
LCSD 880-105321/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
880-55645-1 MS	CS-1 (2"-3")	Soluble	Solid	DI Leach		
880-55645-1 MSD	CS-1 (2"-3")	Soluble	Solid	DI Leach		
nalysis Batch: 105325	5					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
880-55645-1	CS-1 (2"-3")	Soluble	Solid	300.0	105321	
80-55645-2	CS-2 (2"-3")	Soluble	Solid	300.0	105321	40
80-55645-3	CS-3 (2"-3")	Soluble	Solid	300.0	105321	13
80-55645-4	CS-4 (2"-3")	Soluble	Solid	300.0	105321	
80-55645-5	CS-5 (2"-3")	Soluble	Solid	300.0	105321	
80-55645-6	CS-6 (2"-3")	Soluble	Solid	300.0	105321	
80-55645-7	CS-7 (2"-3")	Soluble	Solid	300.0	105321	
80-55645-8	CS-8 (2"-3")	Soluble	Solid	300.0	105321	
IB 880-105321/1-A	Method Blank	Soluble	Solid	300.0	105321	
CS 880-105321/2-A	Lab Control Sample	Soluble	Solid	300.0	105321	
CSD 880-105321/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105321	
80-55645-1 MS	CS-1 (2"-3")	Soluble	Solid	300.0	105321	
80-55645-1 MSD	CS-1 (2"-3")	Soluble	Solid	300.0	105321	

Released to Imaging: 6/4/2025 10:46:07 AM

Initial

Amount

5.02 g

5 mL

10.00 g

1 uL

4.95 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

Number

105315

105281

105406

105373

105305

105297

105321

105325

Dil

1

1

1

1

1

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Client Sample ID: CS-1 (2"-3") Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 880-55645-1 SDG: Eddy Co, NM

Lab Sample ID: 880-55645-1

AJ

TKC

EL

SI

СН

TKC

Prepared

or Analyzed

03/14/25 11:04

03/14/25 12:51

03/14/25 12:51

03/14/25 19:52

03/14/25 10:29

03/14/25 19:52

03/14/25 13:40

03/14/25 23:44

Matrix: Solid

EET MID

EET MID

EET MID

EET MID

EET MID

EET MID

Matrix: Solid

Lab Sample ID: 880-55645-2 Matrix: Solid

Lab Sample ID: 880-55645-3

Lab Sample ID: 880-55645-4

Date Received: ()3/14/25 09:4	8
	Batch	Batch

Client Sample ID: CS-2 (2"-3")

Date Collected: 03/13/25 00:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	105315	03/14/25 11:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105281	03/14/25 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105406	03/14/25 13:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105373	03/14/25 20:38	ТКС	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105305	03/14/25 10:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 20:38	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	105321	03/14/25 13:40	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105325	03/15/25 00:01	СН	EET MID

Client Sample ID: CS-3 (2"-3")

Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	105302	03/14/25 11:51	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105279	03/14/25 16:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105406	03/14/25 16:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105373	03/14/25 20:54	TKC	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105305	03/14/25 10:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 20:54	ТКС	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105321	03/14/25 13:40	SI	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	105325	03/15/25 00:07	СН	EET MID

Client Sample ID: CS-4 (2"-3") Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105302	03/14/25 11:51	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105279	03/14/25 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105406	03/14/25 17:08	AJ	EET MID

Eurofins Midland

Matrix: Solid

Analyst Lab EL EET MID MNR EET MID

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

Client Sample ID: CS-4 (2"-3") Date Collected: 03/13/25 00:00

Date Received: 03/14/25 09:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			105373	03/14/25 21:10	ТКС	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105305	03/14/25 10:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 21:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105321	03/14/25 13:40	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105325	03/15/25 00:12	СН	EET MID

Client Sample ID: CS-5 (2"-3") Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	105302	03/14/25 11:51	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105279	03/14/25 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105406	03/14/25 17:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105373	03/14/25 21:25	TKC	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105305	03/14/25 10:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 21:25	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	105321	03/14/25 13:40	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105325	03/15/25 00:18	СН	EET MID

Client Sample ID: CS-6 (2"-3")

Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	105302	03/14/25 11:51	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105279	03/14/25 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105406	03/14/25 17:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105373	03/14/25 21:41	ТКС	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105305	03/14/25 10:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 21:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	105321	03/14/25 13:40	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105325	03/15/25 00:36	СН	EET MID

Client Sample ID: CS-7 (2"-3") Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	105302	03/14/25 11:51	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105279	03/14/25 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105406	03/14/25 18:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105373	03/14/25 21:57	ТКС	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105305	03/14/25 10:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 21:57	TKC	EET MID

Eurofins Midland

Page 150 of 164

Job ID: 880-55645-1 SDG: Eddy Co, NM

Lab Sample ID: 880-55645-4 Matrix: Solid

Lab Sample ID: 880-55645-5

Lab Sample ID: 880-55645-6

Lab Sample ID: 880-55645-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

Client Sample ID: CS-7 (2"-3") Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

Bate Recented		•								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	105321	03/14/25 13:40	SI	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	105325	03/15/25 00:41	СН	EET MID

Client Sample ID: CS-8 (2"-3") Date Collected: 03/13/25 00:00 Date Received: 03/14/25 09:48

Lab Sample ID	: 880-55645-8
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	105302	03/14/25 11:51	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105279	03/14/25 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105406	03/14/25 18:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105373	03/14/25 22:12	ткс	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105305	03/14/25 10:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105297	03/14/25 22:12	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	105321	03/14/25 13:40	SI	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	105325	03/15/25 00:47	СН	EET MID

Laboratory References:

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

Job ID: 880-55645-1 SDG: Eddy Co, NM

Lab Sample ID: 880-55645-7

Matrix: Solid

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H Job ID: 880-55645-1 SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

thority	Progra	am	Identification Number	Expiration Date	
as	NELAF	ס	T104704400	06-30-25	
The following analytes	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This lis	t may include analytes	
for which the agency of	oes not offer certification.				
Analysis Method	Prep Method	Matrix	Analyte		
300.0		Solid	Chloride		
8015 NM		Solid	Total TPH		
8015B NM	8015NM Prep	Solid	Diesel Range Organics (O	ver C10-C28)	
8015B NM	8015NM Prep	Solid	Gasoline Range Organics	(GRO)-C6-C10	
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over	C28-C36)	
8021B	5035	Solid	Benzene		
8021B	5035	Solid	Ethylbenzene		
8021B	5035	Solid	m-Xylene & p-Xylene		
8021B	5035	Solid	o-Xylene		
8021B	5035	Solid	Toluene		
8021B	5035	Solid	Xylenes, Total		
Total BTEX		Solid	Total BTEX		

Eurofins Midland

0

Method Summary

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

Job ID: 880-55645-1 SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B 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
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	STM International Environmental Protection Agency		
SW846 = '	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E	dition, November 1986 And Its Updates.	
TAL SOP :	 TestAmerica Laboratories, Standard Operating Procedure 		
Laboratory R			
EET MID :	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544)	

Eurofins Midland

Client: Carmona Resources Project/Site: Tar Heel 19-18-7 Federal Com 5H

Job ID: 880-55645-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-55645-1	CS-1 (2"-3")	Solid	03/13/25 00:00	03/14/25 09:48
880-55645-2	CS-2 (2"-3")	Solid	03/13/25 00:00	03/14/25 09:48
880-55645-3	CS-3 (2"-3")	Solid	03/13/25 00:00	03/14/25 09:48
880-55645-4	CS-4 (2"-3")	Solid	03/13/25 00:00	03/14/25 09:48
880-55645-5	CS-5 (2"-3")	Solid	03/13/25 00:00	03/14/25 09:48
880-55645-6	CS-6 (2"-3")	Solid	03/13/25 00:00	03/14/25 09:48
880-55645-7	CS-7 (2"-3")	Solid	03/13/25 00:00	03/14/25 09:48
880-55645-8	CS-8 (2"-3")	Solid	03/13/25 00:00	03/14/25 09:48

Released to Imaging: 6/4/2025 10:46:07 AM

ob ID: 880-55645-1

Page 154 of 164



Received by OCD: 3/20/2025 12:03:26 PM

Released to Imaging: 6/4/2025 10:46:07 AM

3/17/2025

Page 155 of 164

Job Number: 880-55645-1 SDG Number: Eddy Co, NM

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 55645 List Number: 1

Creator: Vasquez, Julisa

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

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

Page 157 of 164

QUESTIONS

Action 444210

QUESTIONS		
Operator:	OGRID:	
Coterra Energy Operating Co.	215099	
6001 Deauville Blvd	Action Number:	
Midland, TX 79706	444210	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2424334807	
Incident Name	NAPP2424334807 TAR HEEL 19-18-7 FEDERAL COM 5H @ 0	
Incident Type	Oil Release	
Incident Status	Remediation Closure Report Received	
	<u>.</u>	

Location of Release Source

Please answer all the questions in this group.		
Site Name	TAR HEEL 19-18-7 FEDERAL COM 5H	
Date Release Discovered	08/30/2024	
Surface Owner	Federal	

Incident Details

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure Transport Drilling Mud/Fluid Released: 72 BBL Recovered: 72 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	We had a reportable release along State Line Road in Eddy County, NM. A J.E.S. Energy truck was hauling oil based drill cuttings from Cimarex Energy's Tar Heel 19-18-7 Federal Com 5H to Milestone Environmental Landfill in Orla, TX. Approximately 30 minutes after leaving location, the seal on the J.E.S. Energy end dump trailer failed while driving down State Line Road towards C-1. Once the driver saw the trail of cuttings on the lease road, he stopped and reported the incident to his Supervisor. The total length of the release is 0.30 miles. An emergency One-Call was placed for the area and a crew was dispatched to the site to remove the cuttings and surface scrape impacted area of the road. All scraped up cuttings and impacted soils were hauled to Milestone Environmental Landfill for disposal. Released: 72 bbls Oil Based Mud Cuttings Recovered: 72 bbls

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

Page 158 of 164

QUESTIONS, Page 2

Action 444210

QUESTIONS (continued)		
Operator:	OGRID:	
Coterra Energy Operating Co.	215099	
6001 Deauville Blvd	Action Number:	
Midland, TX 79706	444210	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

....

Nature and Volume of Release (continued)		
No, according to supplied volumes this does not appear to be a "gas only" report.		
Yes		
From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response			
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.			
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	Not answered.		
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
I hereby agree and sign off to the above statement	Name: Nathaniel Rose Title: EHS Specialists Email: nathaniel.rose@coterra.com Date: 03/20/2025		

General Information Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	444210
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	nd 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 ½ and 1 (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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

appropriate district office no later than 90 days after the release discovery date.
Yes
sociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Yes
No
ams per kilograms.)
2650
1130
1130
0
0
orts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
03/13/2025
03/13/2025
03/13/2025
1580
0
1580
20
ne of submission and may (be) change(d) over time as more remediation efforts are completed.

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

Action 444210

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 444210

QUESTIONS (continued)	
Operator: Coterra Energy Operating Co.	OGRID: 215099
6001 Deauville Blvd Midland, TX 79706	Action Number: 444210
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	

- ----

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Nathaniel Rose Title: EHS Specialists Email: nathaniel.rose@coterra.com

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.

Date: 03/20/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Page 161 of 164

Action 444210

QUESTIONS (continued)	
Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	444210
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Deferral	Req	uests	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	

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 444210

Page 162 of 164

QUESTIONS (continued)

Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	444210
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	441111
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/13/2025
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	3200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all r	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1580
What was the total volume (cubic yards) remediated	20
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)	"Site assessment completed, discussed with NMOCD staff numerous times and collected background samples to prove lease road contains elevated chlorides. Requested a grab sample variance and variance to remediate areas that ONLY exceed in TPH. See appendix C for email communication. Area scraped and grab samples collected"
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete.
I hereby agree and sign off to the above statement	Name: Nathaniel Rose Title: EHS Specialists

I hereby agree and sign off to the above statement	Name. Namaner Rose
	Title: EHS Specialists
	Email: nathaniel.rose@coterra.com
	Date: 03/20/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Coterra Energy Operating Co.	OGRID: 215099
	Action Number: 444210
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	

QUESTIONS Reclamation Report

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

Action 444210

Page 163 of 164

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	444210
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	6/4/2025

Page 164 of 164

Action 444210