



COG (ConocoPhillips)

2024 Work Plan

Columbus Fee 23 & 24 Tank Battery

Incident # NAPP2409554213

Lea County, New Mexico

October 2024

2024 Work Plan

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Prepared By:

Arcadis U.S., Inc.

1330 Post Oak Blvd., Suite 2250

Houston

Texas 77056

Phone: 713 953 4800

Prepared For:

Ike Tavaréz

Project Manager

ConocoPhillips RM&R

600 W. Illinois Ave.

Midland, TX 79701

Our Ref:

30241529



Justin Nixon
Task Manager



Scott Foord, PG
Certified Project Manager

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2024 Work Plan

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2024 Work Plan

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Work Plan, on behalf of Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the Columbus Fee 23 & 24 Tank Battery (Site) located at 32.092465, -103.55617. Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on state land approximately 28-miles southwest of the City of Jal in Unit B, Section 34, Township 25 South, Range 33 East, Lea County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NAPP2409554213

According to the Initial C-141 Form, on April 4, 2024, a hole in the water transfer line was found resulting in the release of approximately 110.6090 barrels (bbls) of produced water to ground surface at the Site with 75 bbls recovered. The Initial C-141 Form was submitted to the NMOCD on April 4, 2024 and assigned Incident ID number NAPP2409554213. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources within a 0.5-mile radius of the Site. There's a registered water well 0.56 miles northeast of the site with a reported depth of 110' below ground surface (bgs). A windmill is located approximately 0.5 miles northeast of the site. During inspection the windmill was inactive and had access to the well to collect a static water level. Once measured, the windmill had a depth of 135 feet below ground surface (bgs). The windmill location was used in a 2021 closure report approved by the NMOCD from a previous release at the site with incident number NRM2020456890. The windmill location can be found in **Figure 3**.

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

- A continuously flowing watercourse or any other significant watercourse: > 5 miles
- 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: > 5 miles
- A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between 500 ft and 1/2 mile
- Any other fresh water well or spring: Between 500 ft and 1/2 mile
- Incorporated municipal boundaries or a defined municipal fresh water well field: > 5 miles
- A wetland: Between 1/2 and 1 mile
- A subsurface mine: > 5 miles
- A (non-karst) unstable area: > 5 miles

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- Categorize the risk of this well/site being in Karst Geology: Low
- A 100-year floodplain: >5 mi.
- Did the release impact areas not on an exploration, development, production, or storage site? Yes

Site characterization information can be found in **Appendix B**.

4 NMAC Regulatory Criteria

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation activities within the first 4 feet of soil:

Constituent	Limit (mg/kg)
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	100 mg/kg
Chloride	600 mg/kg

The NMOCD classifies the Site to use the least stringent remediation regulatory limits for soils at depths greater than 4 feet bgs due to depth to groundwater being confirmed greater than 100 feet bgs, and no additional conditions or stipulations are applicable to the Site. Per Table I of New Mexico Administrative Code (NMAC) part 19.15.29.12, the following closure criteria apply to the Site:

Constituent	Limit (mg/kg)
Chloride	20,000 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	2,500 mg/kg
GRO and DRO	1,000 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Benzene	10 mg/kg

5 Site Assessment Activities

On June 12, 2024, Carmona Resources performed site assessment activities to evaluate soil impacts stemming from the release. A total of eleven (13) sample points were advanced to depths ranging from the surface to 4 feet

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bgs inside and surrounding the release area to evaluate the vertical and horizontal extents of the release. Soil sample locations are shown on **Figure 3**.

Horizontal delineation was achieved during the initial soil assessment to confirm impact from the release is below the NMOCD reclamation standards. Vertical delineation was assessed as well to confirm impacts for both reclamation and remediation standards established by the NMOCD to determine the potential area of concern within the top 4 feet of soil. Arcadis will use this data to guide reclamation and remediation activities prior to collecting any laboratory analytical samples. Soil sample analytical results are summarized in **Table 1**. Laboratory reports for soil samples collected during the initial site assessment, including analytical methods, results, and chain-of-custody documents, are attached in **Appendix C**.

6 Proposed Work Plan

Based on the analytical data and the detected chloride concentrations in soil samples collected during site assessment activities, COG proposes to remediate the areas shown in **Figure 4** and highlighted (blue) in **Table 1**.

The proposed excavation encompasses a surface area of approximately 4,217 square feet. In accordance with NMAC 19.15.29.12(D)(1)(b) COG proposes the following alternative confirmation sampling plan as a variance request to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 400 square foot intervals for analysis of chloride by EPA Method 300.0, BTEX by EPA Method 8260, and TPH for GRO, DRO, and ORO by EPA Method 8015. Lateral limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c).

An estimated 1,284 cubic yards of soil will be removed and transported to the nearest NMOCD approved disposal facility. Following completion of excavation activities, the areas will be backfilled with clean material and reclaimed to match the original surface conditions and drainage.

The disturbed areas will be reseeded during the first favorable growing season following closure of the site in accordance with NMAC part 19.15.29.13 with an BLM #2 approved seed mixture.

The proposed remediation activities will be implemented within 90 days following approval of this work plan by the NMOCD. The anticipated schedule includes 30 days to schedule field work and confirm sub-contractors, 30 days to complete on-site remediation activities, and 30 days to prepare a soil remediation summary and closure request report.

7 Work Plan Approval Request

Upon completion of the above proposed soil remediation activities, a final closure request report describing the remediation activities will be submitted to the NMOCD for review. If you have any questions regarding this work plan or need additional information, please do not hesitate to contact Scott Foord at 281-725-7447 or Justin Nixon at 432-296-9547.

Tables

Table 1
COG Operating
Columbus Fee 23 & 24
Lea county, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	6/12/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	386
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	130
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	354
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	624
	"	4.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,210
T-2	6/12/2024	0-1	<49.7	62.9	<49.7	62.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	8,480
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,500
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,490
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	321
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,200
T-3	6/12/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	988
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,330
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6,950
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,320
	"	4.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,510
T-4	6/12/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	567
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	141
	"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	310
	"	3.0	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	459
T-5	6/12/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	517
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,280
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,530
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	941
H-1	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	62.0
H-2	6/12/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	44.4
H-3	6/12/2024	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	71.0
H-4	6/12/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.4
H-5	6/12/2024	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	40.4
H-6	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	62.9
H-7	6/12/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	43.3
H-8	6/12/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	29.4
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

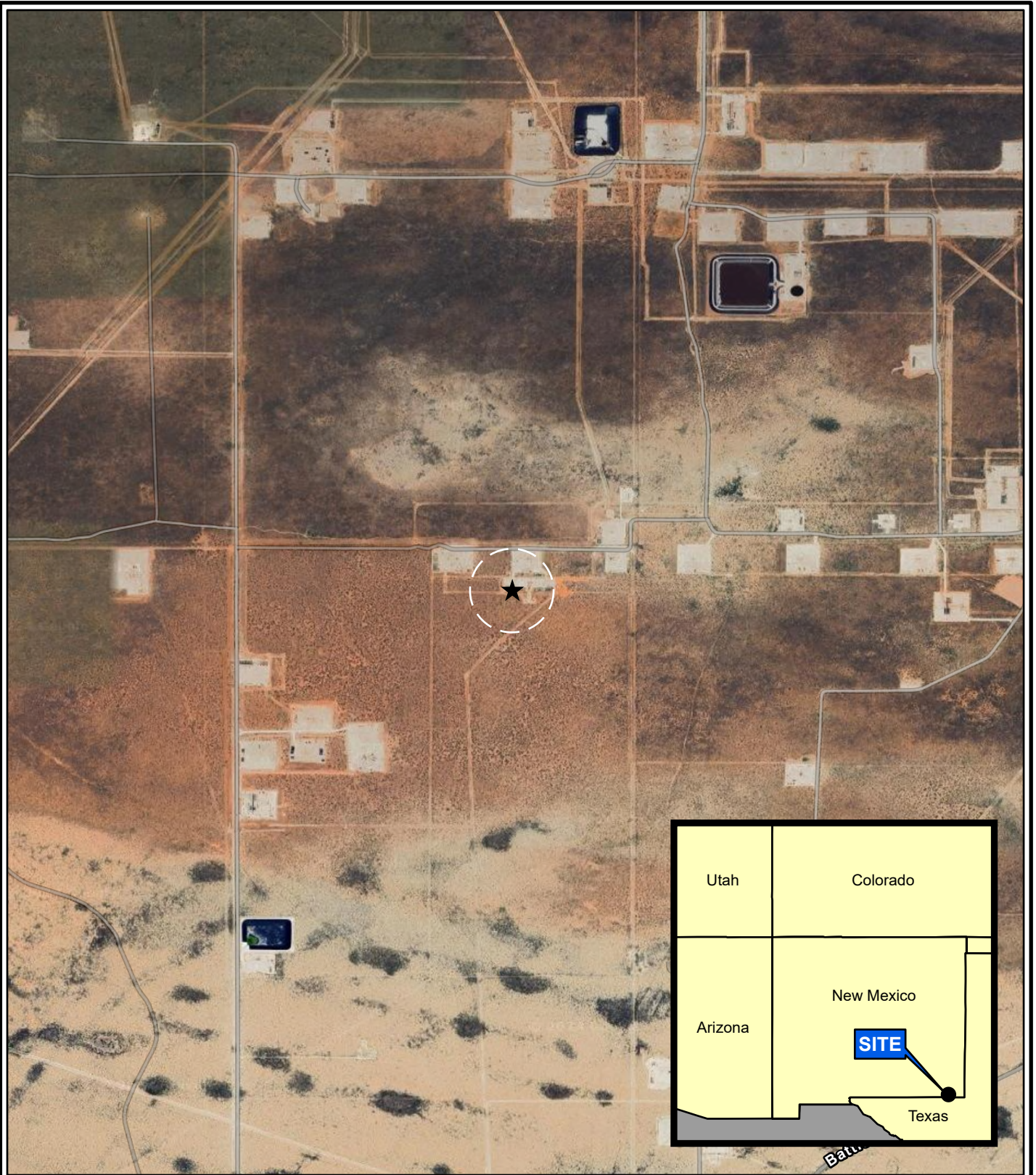
ft - feet

(S) Sample Point

Exceeds

Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:26 AM



NOTES:
Datum: D_WGS_1984
Source: Google Earth
Site Location: 32.092465°, -103.556617°

0 2,000 4,000
Feet
GRAPHIC SCALE

Legend

★ Site Location

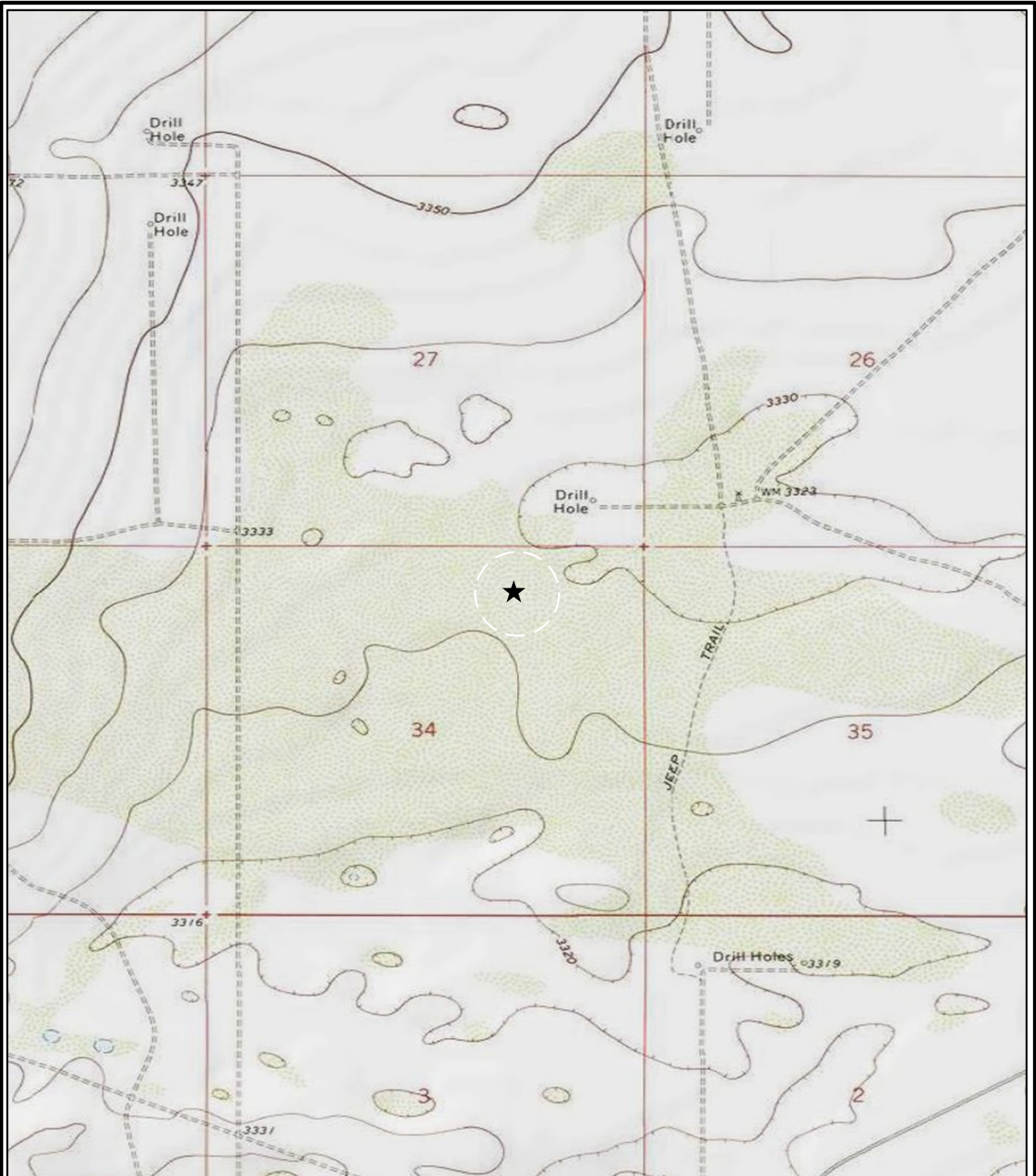
COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP



FIGURE
1

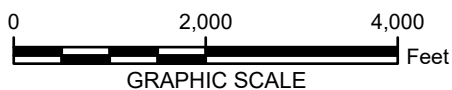
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T:\EHSS\ArcGIS_ProLand\COG_COPI\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:26 AM



ESRI: USGS Topo Service



NOTES:
Datum: D_WGS_1984
Source: Google Earth
Site Location: 32.092465°, -103.556617°



Legend

★ Site Location

COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP



FIGURE
2

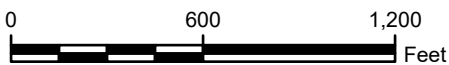
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T:\EHSS\ArcGIS Pro\Land\COG COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:36 AM



Service Layer Credits: GOOGLE SATELITE:
Google



NOTES:
Datum: D_WGS_1984
Source: Google Earth
Site Location: 32.092465°, -103.556617°



GRAPHIC SCALE

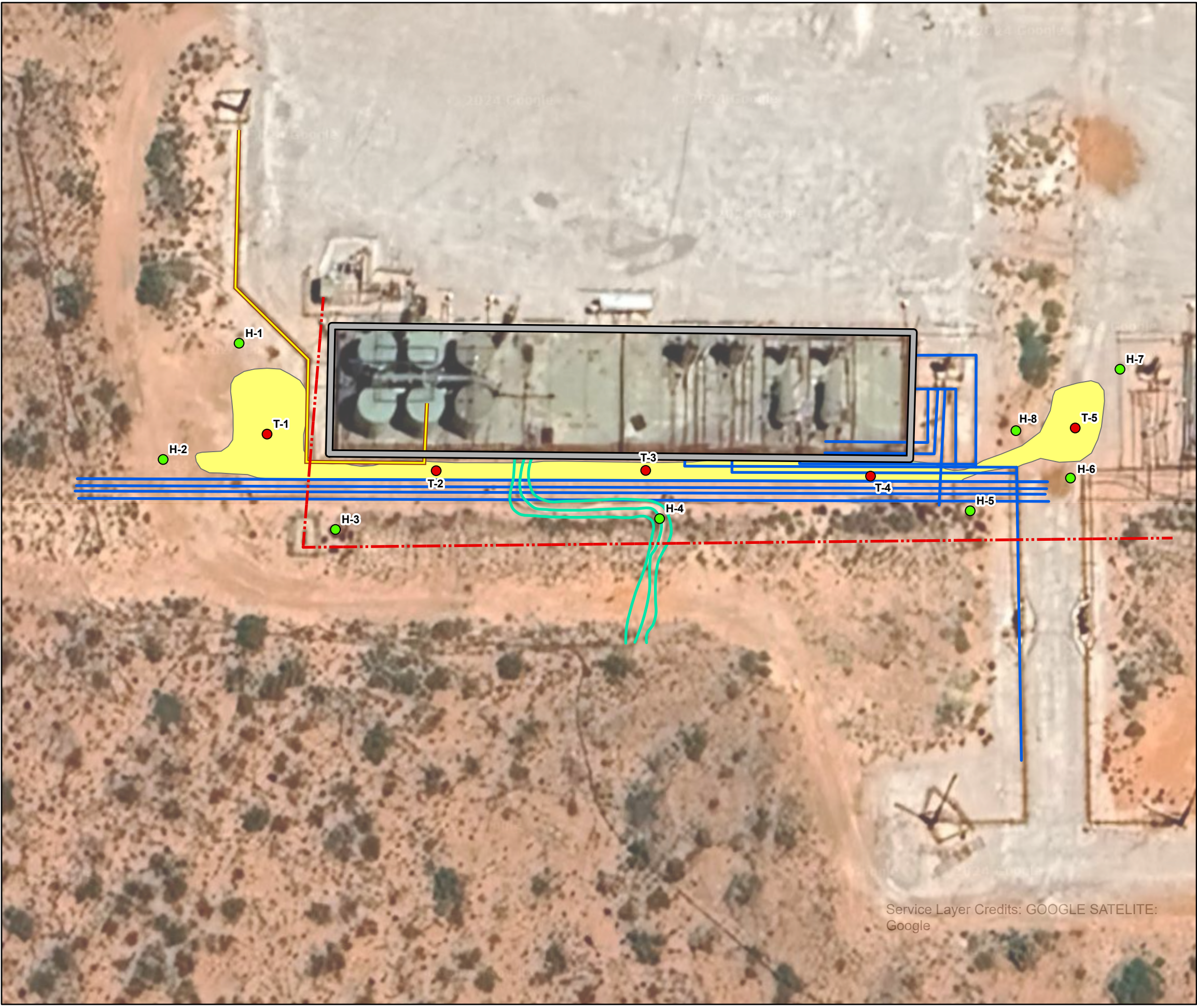
COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

DEPTH TO GROUNDWATER MAP



FIGURE
3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wherry Client (Project #)
T:\EHSS\ArcGIS_Proland\COG_COP\NM\ColumbusFee_23_24\ColumbusFee.aprx 9/20/2024 10:26 AM



Legend

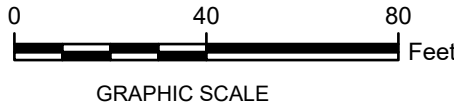
Soil Samples

- Above Reclamation Limit
- Below Reclamation Limit

Metal Containment

- Buried Gas Line
- Elevated Steel Line
- ~ Surface Polyline
- Surface Steel Line
- Excavation Area

Sampling_Points



COG (CONOCOPHILLIPS)
COLUMBUS FEE 23-24 SWD
LEA COUNTY, NEW MEXICO

**PROPOSED EXCAVATION AND
SAMPLE LOCATION MAP**



FIGURE
4

Photographic Logs



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 1	Date: 09/17/2024		
Direction Photo Taken: Facing NE			
Description: Excavation area 32.092465, -103.55617			



PHOTOGRAPHIC LOG

Property Name: Columbus Fee 23-24 Tank Battery		Location: Lea County, NM	Case No. NAPP2409554213
Photo No. 2	Date: 09/17/2024		
Direction Photo Taken: NW			
Description: Excavation area 32.092465, -103.55617			

Appendix A

Initial C-141 Form Incident # NAPP2409554213

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.	
☐ The impacted area has been secured to protect human health and the environment.	
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: _____	Title: _____
Signature: <u>Patricia Zapanta</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Appendix B

Site Characterization

COG Operating

Karst Map
Columbus Fee 23-24 CTB

Legend

- High
- Low
- Medium

Site Location



800 ft

National Flood Hazard Layer FIRMette



103°33'42"W 32°5'48"N



USGS The National Map: Orthoimagery. Data refreshed October, 2020.

0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°33'5"W 32°5'17"N

Released to Imaging: 10/23/2024 4:50:47 PM

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/30/2020 at 1:44 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



ArcGIS Web Map

Legend

◆ OSE_PODs

Columbus Fee 23/24 CTB

Columbus Federal 21/22 CTB

Distance: 0.5 Miles





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02313	CUB	LE		2	3	3	26	25S	33E	636971	3552098*	910	150	110	40

Average Depth to Water: **110 feet**

Minimum Depth: **110 feet**

Maximum Depth: **110 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 636215.7

Northing (Y): 3551589.36

Radius: 1610

*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.

12/30/20 12:05 PM

Page 1 of 1

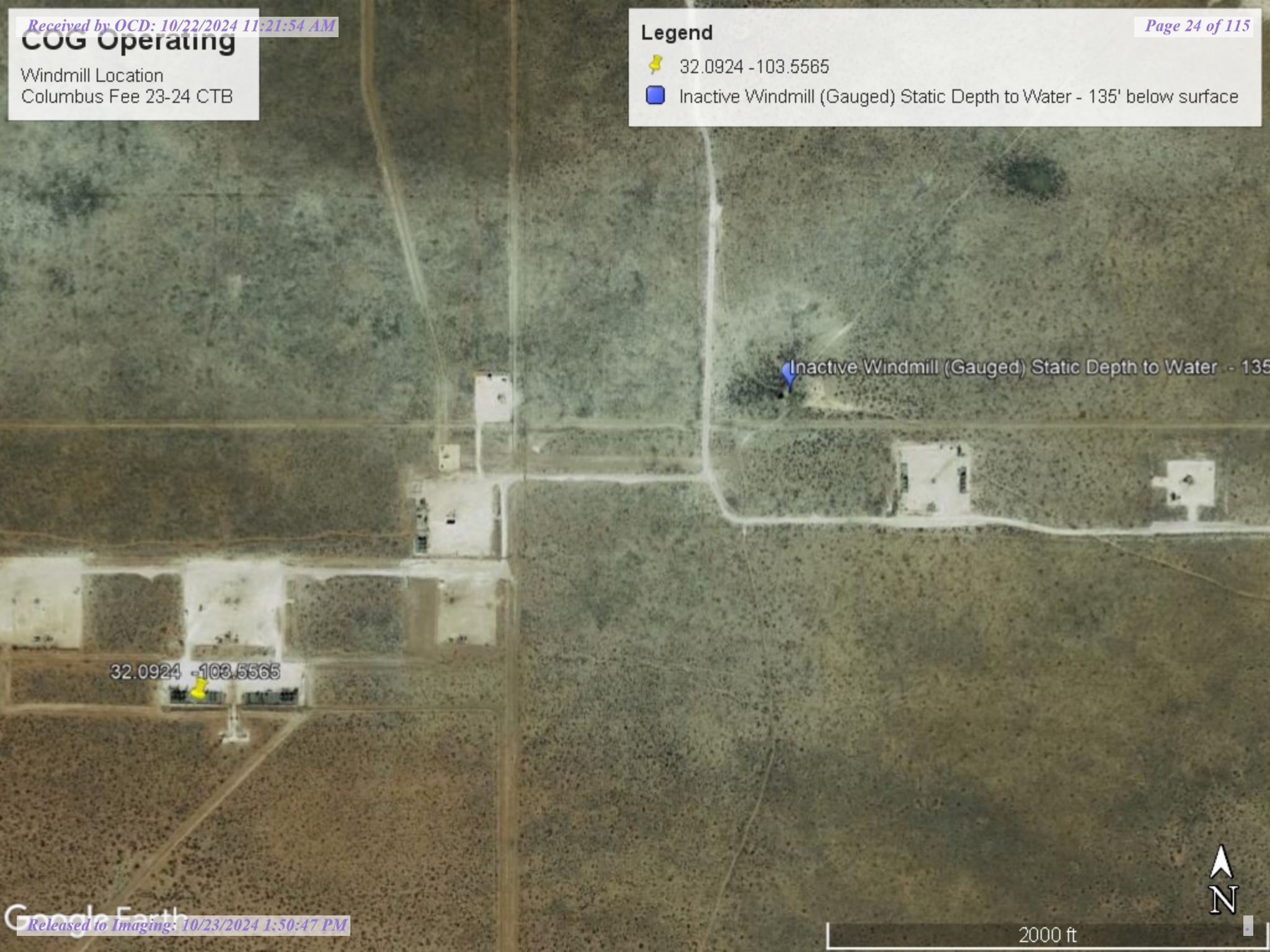
WATER COLUMN/ AVERAGE
DEPTH TO WATER

COG Operating

Windmill Location
Columbus Fee 23-24 CTB

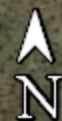
Legend

-  32.0924 -103.5565
-  Inactive Windmill (Gauged) Static Depth to Water - 135' below surface



32.0924 -103.5565

Inactive Windmill (Gauged) Static Depth to Water - 135'



Appendix C

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/17/2024 3:26:05 PM

JOB DESCRIPTION

Columbus Fee 23-24 SWD Line
Lea County, NM

JOB NUMBER

880-44727-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
6/17/2024 3:26:05 PM

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

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Laboratory Job ID: 880-44727-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1

Job ID: 880-44727-1

Eurofins Midland

Job Narrative 880-44727-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 6/13/2024 1:20 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 -7.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-44727-1), H-2 (0-0.5') (880-44727-2), H-3 (0-0.5') (880-44727-3), H-4 (0-0.5') (880-44727-4), H-5 (0-0.5') (880-44727-5), H-6 (0-0.5') (880-44727-6), H-7 (0-0.5') (880-44727-7) and H-8 (0-0.5') (880-44727-8).

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: CCV was biased high for both the gasoline and diesel hydrocarbon ranges. Other bracketing verifications were acceptable within a 12 hour window; therefore, the data was qualified and reported.

(CCV 880-83189/30)

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-83148 and analytical batch 880-83203 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-1

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 11:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:48	06/14/24 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/13/24 13:48	06/14/24 11:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/13/24 13:48	06/14/24 11:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/14/24 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 21:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 21:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	06/13/24 16:20	06/14/24 21:02	1
o-Terphenyl	88		70 - 130	06/13/24 16:20	06/14/24 21:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.0		4.96		mg/Kg			06/14/24 09:23	1

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

Lab Sample ID: 880-44727-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 11:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:48	06/14/24 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/13/24 13:48	06/14/24 11:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/13/24 13:48	06/14/24 11:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/14/24 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/13/24 16:20	06/14/24 21:18	1
o-Terphenyl	95		70 - 130				06/13/24 16:20	06/14/24 21:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		4.98		mg/Kg			06/14/24 09:29	1

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

Lab Sample ID: 880-44727-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:48	06/14/24 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				06/13/24 13:48	06/14/24 12:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/13/24 13:48	06/14/24 12:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/24 21:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 21:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 21:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				06/13/24 16:20	06/14/24 21:33	1
o-Terphenyl	76		70 - 130				06/13/24 16:20	06/14/24 21:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.0		4.96		mg/Kg			06/14/24 09:35	1

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

Lab Sample ID: 880-44727-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:48	06/14/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/13/24 13:48	06/14/24 12:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/13/24 13:48	06/14/24 12:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/14/24 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				06/13/24 16:20	06/14/24 21:49	1
o-Terphenyl	87		70 - 130				06/13/24 16:20	06/14/24 21:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		4.97		mg/Kg			06/14/24 09:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-5

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 12:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/13/24 13:48	06/14/24 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/13/24 13:48	06/14/24 12:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/13/24 13:48	06/14/24 12:42	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			06/14/24 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/24 22:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 22:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 22:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/13/24 16:20	06/14/24 22:05	1
o-Terphenyl	93		70 - 130	06/13/24 16:20	06/14/24 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.4		4.98		mg/Kg			06/14/24 09:58	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-44727-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 13:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:48	06/14/24 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/13/24 13:48	06/14/24 13:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/13/24 13:48	06/14/24 13:03	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-44727-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/14/24 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/14/24 22:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:20	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:20	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				06/13/24 16:20	06/14/24 22:20	1
o-Terphenyl	82		70 - 130				06/13/24 16:20	06/14/24 22:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.9		5.04		mg/Kg			06/14/24 10:04	1

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-44727-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:48	06/14/24 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/13/24 13:48	06/14/24 13:23	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/13/24 13:48	06/14/24 13:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/14/24 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-44727-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/14/24 22:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				06/13/24 16:20	06/14/24 22:35	1
o-Terphenyl	82		70 - 130				06/13/24 16:20	06/14/24 22:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.3		4.99		mg/Kg			06/14/24 10:10	1

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-44727-8

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:48	06/14/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/13/24 13:48	06/14/24 13:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/13/24 13:48	06/14/24 13:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/24 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 22:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 22:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				06/13/24 16:20	06/14/24 22:50	1
o-Terphenyl	81		70 - 130				06/13/24 16:20	06/14/24 22:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		4.98		mg/Kg			06/14/24 10:16	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-44727-1	H-1 (0-0.5')	103	102
880-44727-1 MS	H-1 (0-0.5')	100	99
880-44727-1 MSD	H-1 (0-0.5')	98	98
880-44727-2	H-2 (0-0.5')	101	101
880-44727-3	H-3 (0-0.5')	103	102
880-44727-4	H-4 (0-0.5')	101	100
880-44727-5	H-5 (0-0.5')	102	102
880-44727-6	H-6 (0-0.5')	100	100
880-44727-7	H-7 (0-0.5')	102	101
880-44727-8	H-8 (0-0.5')	102	101
LCS 880-83122/1-A	Lab Control Sample	101	100
LCSD 880-83122/2-A	Lab Control Sample Dup	102	100
MB 880-83122/5-A	Method Blank	101	99
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44727-1	H-1 (0-0.5')	96	88
880-44727-2	H-2 (0-0.5')	100	95
880-44727-3	H-3 (0-0.5')	81	76
880-44727-4	H-4 (0-0.5')	95	87
880-44727-5	H-5 (0-0.5')	97	93
880-44727-6	H-6 (0-0.5')	90	82
880-44727-7	H-7 (0-0.5')	88	82
880-44727-8	H-8 (0-0.5')	89	81
890-6830-A-67-E MS	Matrix Spike	104	92
890-6830-A-67-F MSD	Matrix Spike Duplicate	103	90
LCS 880-83153/2-A	Lab Control Sample	106	86
LCSD 880-83153/3-A	Lab Control Sample Dup	110	87
MB 880-83153/1-A	Method Blank	93	85
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-83122/5-A

Matrix: Solid

Analysis Batch: 83198

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83122

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:48	06/14/24 10:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:48	06/14/24 10:58	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		70 - 130	06/13/24 13:48	06/14/24 10:58	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/13/24 13:48	06/14/24 10:58	1

Lab Sample ID: LCS 880-83122/1-A

Matrix: Solid

Analysis Batch: 83198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83122

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.1029		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2147		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130

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

Lab Sample ID: LCSD 880-83122/2-A

Matrix: Solid

Analysis Batch: 83198

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83122

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1091		mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.1061		mg/Kg		106	70 - 130	3	35
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2226		mg/Kg		111	70 - 130	4	35
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130	4	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-44727-1 MS

Matrix: Solid

Analysis Batch: 83198

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

Prep Type: Total/NA

Prep Batch: 83122

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.00199	U	0.0996	0.1059		mg/Kg		106	70 - 130
Toluene	<0.00199	U	0.0996	0.1005		mg/Kg		101	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-1 MS
Matrix: Solid
Analysis Batch: 83198

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 83122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09861		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2068		mg/Kg		104	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1032		mg/Kg		104	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 880-44727-1 MSD
Matrix: Solid
Analysis Batch: 83198

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 83122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1004		mg/Kg		100	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.09320		mg/Kg		92	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.101	0.09168		mg/Kg		91	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1905		mg/Kg		94	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.09769		mg/Kg		97	70 - 130	6	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

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

Lab Sample ID: MB 880-83153/1-A
Matrix: Solid
Analysis Batch: 83189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 19:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	85		70 - 130						

Lab Sample ID: LCS 880-83153/2-A
Matrix: Solid
Analysis Batch: 83189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	939.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	863.8		mg/Kg		86	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-83153/2-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83153

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-83153/3-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83153

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	969.3		mg/Kg		97	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	916.3		mg/Kg		92	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-6830-A-67-E MS

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 83153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	709.4		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	720.0		mg/Kg		72	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-6830-A-67-F MSD

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 83153

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	756.9		mg/Kg		76	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	705.2		mg/Kg		71	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	90		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83148/1-A

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/14/24 08:47	1

Lab Sample ID: LCS 880-83148/2-A

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-83148/3-A

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-44726-A-1-C MS

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	46900	F1	12400	60900	F1	mg/Kg		113	90 - 110

Lab Sample ID: 880-44726-A-1-D MSD

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	46900	F1	12400	61010	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

GC VOA

Prep Batch: 83122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	5035	
MB 880-83122/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83122/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83122/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44727-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-44727-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 83198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	8021B	83122
MB 880-83122/5-A	Method Blank	Total/NA	Solid	8021B	83122
LCS 880-83122/1-A	Lab Control Sample	Total/NA	Solid	8021B	83122
LCSD 880-83122/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83122
880-44727-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	83122
880-44727-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	83122

Analysis Batch: 83304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 83153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-83153/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83153/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6830-A-67-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6830-A-67-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 83189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	83153
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	83153
MB 880-83153/1-A	Method Blank	Total/NA	Solid	8015B NM	83153
LCS 880-83153/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83153
LCSD 880-83153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83153
890-6830-A-67-E MS	Matrix Spike	Total/NA	Solid	8015B NM	83153
890-6830-A-67-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	83153

Analysis Batch: 83334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	
880-44727-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-44727-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-83148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83148/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44726-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 83148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44726-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 83203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44727-1	H-1 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-2	H-2 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-3	H-3 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-4	H-4 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-5	H-5 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-6	H-6 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-7	H-7 (0-0.5')	Soluble	Solid	300.0	83148
880-44727-8	H-8 (0-0.5')	Soluble	Solid	300.0	83148
MB 880-83148/1-A	Method Blank	Soluble	Solid	300.0	83148
LCS 880-83148/2-A	Lab Control Sample	Soluble	Solid	300.0	83148
LCSD 880-83148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83148
880-44726-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	83148
880-44726-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	83148

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-1

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 11:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 11:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 21:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 21:02	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:23	CH	EET MID

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

Lab Sample ID: 880-44727-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 11:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 11:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 21:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 21:18	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:29	CH	EET MID

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

Lab Sample ID: 880-44727-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 12:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 21:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 21:33	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:35	CH	EET MID

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

Lab Sample ID: 880-44727-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 12:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44727-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			83334	06/14/24 21:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 21:49	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:41	CH	EET MID

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

Lab Sample ID: 880-44727-5

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 12:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 22:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 22:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 09:58	CH	EET MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-44727-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 13:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 22:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 22:20	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 10:04	CH	EET MID

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-44727-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 13:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 22:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 22:35	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-44727-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 10:10	CH	EET MID

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-44727-8

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83122	06/13/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83198	06/14/24 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83304	06/14/24 13:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			83334	06/14/24 22:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 22:50	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 10:16	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, 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 References:

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

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44727-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44727-1	H-1 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-2	H-2 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-3	H-3 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-4	H-4 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-5	H-5 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-6	H-6 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-7	H-7 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44727-8	H-8 (0-0.5')	Solid	06/12/24 00:00	06/13/24 13:20

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- 14

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- 13
- 14

Chain of Custody

W



880-44727 Chain of Custody

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

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:		Columbus Fee 23-24 SWD Line		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes														
Project Number:		2330		☒ Routine	☐ Rush														None: NO	DI Water: H ₂ O													
Project Location:		Lea County, NM		Due Date:															Cool: Cool	MeOH: Me													
Sample's Name:		CRM																	HCL: HC	HNO ₃ : HN													
Project:																		H ₂ SO ₄ : H ₂	NaOH: Na														
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☒		Wet Ice:		Yes ☒ No ☒		Parameters																							
Received Intact:		Yes ☒ No ☒		Thermometer ID:		ISK																											
Cold Custody Seals:		Yes ☒ No ☒ N/A ☒		Correction Factor:		7.1																											
Sample Custody Seals:		Yes ☒ No ☒ N/A ☒		Temperature Reading:		-7.7														Na ₂ S ₂ O ₃ : NaSO ₃													
Tainted Containers:				Corrected Temperature:		-7.8														Zn Acetate+NaOH: Zn													
																				NaOH+Ascorbic Acid: SAPC													
Sample Identification		Date		Time		Soil		Water		Grab/ Comp		# of Cont														Sample Comments							
		H-1 (0-0.5')		6/12/2024				X		G		1		X		X		X															
		H-2 (0-0.5')		6/12/2024				X		G		1		X		X		X															
		H-3 (0-0.5')		6/12/2024				X		G		1		X		X		X															
		H-4 (0-0.5')		6/12/2024				X		G		1		X		X		X															
		H-5 (0-0.5')		6/12/2024				X		G		1		X		X		X															
		H-6 (0-0.5')		6/12/2024				X		G		1		X		X		X															
		H-7 (0-0.5')		6/12/2024				X		G		1		X		X		X															
		H-8 (0-0.5')		6/12/2024				X		G		1		X		X		X															

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/13/24		6/13/24 1520

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44727-1
SDG Number: Lea County, NM

Login Number: 44727
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/18/2024 6:09:00 PM

JOB DESCRIPTION

Columbus Fee 23-24 SWD Line
Lea County, NM

JOB NUMBER

880-44729-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
6/18/2024 6:09:00 PM

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

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Laboratory Job ID: 880-44729-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1

Job ID: 880-44729-1

Eurofins Midland

Job Narrative
880-44729-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 6/13/2024 1:20 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 -7.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-44729-1), T-1 (1.5') (880-44729-2), T-1 (2') (880-44729-3), T-1 (3') (880-44729-4), T-1 (4') (880-44729-5), T-2 (0-1') (880-44729-6), T-2 (1.5') (880-44729-7), T-2 (2') (880-44729-8), T-2 (3') (880-44729-9), T-2 (4') (880-44729-10), T-3 (0-1') (880-44729-11), T-3 (1.5') (880-44729-12), T-3 (2') (880-44729-13), T-3 (3') (880-44729-14), T-3 (4') (880-44729-15), T-4 (0-1') (880-44729-16), T-4 (1.5') (880-44729-17), T-4 (2') (880-44729-18), T-4 (3') (880-44729-19), T-5 (0-1') (880-44729-20), T-5 (1.5') (880-44729-21), T-5 (2') (880-44729-22) and T-5 (3') (880-44729-23).

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: CCV was biased high for both the gasoline and diesel hydrocarbon ranges. Other bracketing verifications were acceptable within a 12 hour window; therefore, the data was qualified and reported.

(CCV 880-83189/30)

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-83154 and analytical batch 880-83278 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-3 (0-1') (880-44729-11), T-3 (1.5') (880-44729-12), T-3 (4') (880-44729-15), T-4 (1.5') (880-44729-17), T-4 (3') (880-44729-19), T-5 (0-1') (880-44729-20), (880-44729-A-11-F MS) and (880-44729-A-11-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-83154 and analytical batch 880-83278 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-83278 recovered below the lower 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 880-83278/47).

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-83148 and analytical batch 880-83203 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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Case Narrative

Client: Carmona Resources
Project: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1

Job ID: 880-44729-1 (Continued) **Eurofins Midland**

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-44729-1

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 22:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/13/24 13:36	06/13/24 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/13/24 13:36	06/13/24 22:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/13/24 13:36	06/13/24 22:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/13/24 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/14/24 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	06/13/24 16:20	06/14/24 23:20	1
o-Terphenyl	80		70 - 130	06/13/24 16:20	06/14/24 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	386	F1	24.9		mg/Kg			06/14/24 10:28	5

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-44729-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/13/24 22:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/13/24 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/13/24 22:35	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/13/24 22:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-44729-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/13/24 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/24 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 23:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 23:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/14/24 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				06/13/24 16:20	06/14/24 23:37	1
o-Terphenyl	87		70 - 130				06/13/24 16:20	06/14/24 23:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.03		mg/Kg			06/14/24 10:46	1

Client Sample ID: T-1 (2')

Lab Sample ID: 880-44729-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/13/24 13:36	06/13/24 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				06/13/24 13:36	06/13/24 22:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/13/24 13:36	06/13/24 22:56	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			06/13/24 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/14/24 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-1 (2')

Lab Sample ID: 880-44729-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/14/24 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				06/13/24 16:20	06/14/24 23:52	1
o-Terphenyl	78		70 - 130				06/13/24 16:20	06/14/24 23:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354		5.05		mg/Kg			06/14/24 10:52	1

Client Sample ID: T-1 (3')

Lab Sample ID: 880-44729-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/13/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				06/13/24 13:36	06/13/24 23:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/13/24 23:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/13/24 23:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/15/24 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 00:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 00:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				06/13/24 16:20	06/15/24 00:08	1
o-Terphenyl	80		70 - 130				06/13/24 16:20	06/15/24 00:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	624		4.99		mg/Kg			06/14/24 11:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-1 (4')

Lab Sample ID: 880-44729-5

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 23:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/13/24 13:36	06/13/24 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/13/24 13:36	06/13/24 23:37	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/13/24 23:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/13/24 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/15/24 00:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 00:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 00:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/13/24 16:20	06/15/24 00:24	1
o-Terphenyl	95		70 - 130	06/13/24 16:20	06/15/24 00:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		4.96		mg/Kg			06/14/24 11:15	1

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-44729-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/13/24 23:57	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/13/24 13:36	06/13/24 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/13/24 23:57	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/13/24 13:36	06/13/24 23:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-44729-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/13/24 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.9		49.7		mg/Kg			06/15/24 09:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 09:42	1
Diesel Range Organics (Over C10-C28)	62.9		49.7		mg/Kg		06/13/24 16:20	06/15/24 09:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:20	06/15/24 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				06/13/24 16:20	06/15/24 09:42	1
o-Terphenyl	102		70 - 130				06/13/24 16:20	06/15/24 09:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8480		50.2		mg/Kg			06/14/24 11:21	10

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-44729-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 00:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 00:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 00:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/15/24 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 09:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 09:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-44729-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 09:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				06/13/24 16:20	06/15/24 09:56	1
o-Terphenyl	91		70 - 130				06/13/24 16:20	06/15/24 09:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4500		49.8		mg/Kg			06/14/24 11:27	10

Client Sample ID: T-2 (2')

Lab Sample ID: 880-44729-8

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/14/24 00:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 00:38	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 00:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/15/24 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 10:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 10:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:20	06/15/24 10:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				06/13/24 16:20	06/15/24 10:11	1
o-Terphenyl	78		70 - 130				06/13/24 16:20	06/15/24 10:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		25.2		mg/Kg			06/14/24 11:33	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-2 (3')

Lab Sample ID: 880-44729-9

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 00:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/13/24 13:36	06/14/24 00:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/14/24 00:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/15/24 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/15/24 10:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/15/24 10:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:20	06/15/24 10:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	06/13/24 16:20	06/15/24 10:26	1
o-Terphenyl	91		70 - 130	06/13/24 16:20	06/15/24 10:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	321		4.99		mg/Kg			06/14/24 11:39	1

Client Sample ID: T-2 (4')

Lab Sample ID: 880-44729-10

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 01:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/13/24 13:36	06/14/24 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/13/24 13:36	06/14/24 01:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/14/24 01:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-2 (4')

Lab Sample ID: 880-44729-10

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/14/24 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/15/24 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 10:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 10:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/15/24 10:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				06/13/24 16:20	06/15/24 10:41	1
o-Terphenyl	85		70 - 130				06/13/24 16:20	06/15/24 10:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		25.0		mg/Kg			06/14/24 11:45	5

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-44729-11

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/13/24 13:36	06/14/24 02:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				06/13/24 13:36	06/14/24 02:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 02:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/14/24 02:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/17/24 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-44729-11

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				06/13/24 16:25	06/17/24 18:56	1
o-Terphenyl	60	S1-	70 - 130				06/13/24 16:25	06/17/24 18:56	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	988		5.03		mg/Kg			06/14/24 09:26	1

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-44729-12

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:36	06/14/24 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/13/24 13:36	06/14/24 03:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/13/24 13:36	06/14/24 03:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 03:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/17/24 19:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				06/13/24 16:25	06/17/24 19:49	1
o-Terphenyl	66	S1-	70 - 130				06/13/24 16:25	06/17/24 19:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3330		25.3		mg/Kg			06/14/24 09:41	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-3 (2')

Lab Sample ID: 880-44729-13

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 03:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/13/24 13:36	06/14/24 03:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/13/24 13:36	06/14/24 03:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 03:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 20:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 20:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	06/13/24 16:25	06/17/24 20:06	1
o-Terphenyl	72		70 - 130	06/13/24 16:25	06/17/24 20:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6950		50.3		mg/Kg			06/14/24 09:46	10

Client Sample ID: T-3 (3')

Lab Sample ID: 880-44729-14

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 03:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/13/24 13:36	06/14/24 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/13/24 13:36	06/14/24 03:43	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/14/24 03:43	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-3 (3')

Lab Sample ID: 880-44729-14

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/14/24 03:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				06/13/24 16:25	06/17/24 20:23	1
o-Terphenyl	76		70 - 130				06/13/24 16:25	06/17/24 20:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2320		25.0		mg/Kg			06/14/24 09:51	5

Client Sample ID: T-3 (4')

Lab Sample ID: 880-44729-15

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 04:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/13/24 13:36	06/14/24 04:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/13/24 13:36	06/14/24 04:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 04:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/17/24 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 20:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 20:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-3 (4')

Lab Sample ID: 880-44729-15

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				06/13/24 16:25	06/17/24 20:40	1
o-Terphenyl	66	S1-	70 - 130				06/13/24 16:25	06/17/24 20:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3510		24.9		mg/Kg			06/14/24 09:56	5

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-44729-16

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/13/24 13:36	06/14/24 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 04:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 04:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/14/24 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				06/13/24 16:25	06/17/24 20:57	1
o-Terphenyl	72		70 - 130				06/13/24 16:25	06/17/24 20:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	567		5.04		mg/Kg			06/14/24 10:11	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-44729-17

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/14/24 04:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:36	06/14/24 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/14/24 04:45	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/13/24 13:36	06/14/24 04:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/14/24 04:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/17/24 21:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	06/13/24 16:25	06/17/24 21:14	1
o-Terphenyl	66	S1-	70 - 130	06/13/24 16:25	06/17/24 21:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		5.05		mg/Kg			06/14/24 10:16	1

Client Sample ID: T-4 (2')

Lab Sample ID: 880-44729-18

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:36	06/14/24 05:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:36	06/14/24 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/13/24 13:36	06/14/24 05:05	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/13/24 13:36	06/14/24 05:05	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-4 (2')

Lab Sample ID: 880-44729-18

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			06/17/24 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/13/24 16:25	06/17/24 21:31	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/13/24 16:25	06/17/24 21:31	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/13/24 16:25	06/17/24 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				06/13/24 16:25	06/17/24 21:31	1
o-Terphenyl	73		70 - 130				06/13/24 16:25	06/17/24 21:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		5.02		mg/Kg			06/14/24 10:21	1

Client Sample ID: T-4 (3')

Lab Sample ID: 880-44729-19

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 05:26	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/13/24 13:36	06/14/24 05:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/17/24 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 21:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 21:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-4 (3')

Lab Sample ID: 880-44729-19

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 21:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				06/13/24 16:25	06/17/24 21:47	1
o-Terphenyl	62	S1-	70 - 130				06/13/24 16:25	06/17/24 21:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	459		4.95		mg/Kg			06/14/24 10:26	1

Client Sample ID: T-5 (0-1')

Lab Sample ID: 880-44729-20

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/13/24 13:36	06/14/24 05:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/13/24 13:36	06/14/24 05:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/13/24 13:36	06/14/24 05:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 05:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/17/24 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 22:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 22:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/13/24 16:25	06/17/24 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				06/13/24 16:25	06/17/24 22:04	1
o-Terphenyl	61	S1-	70 - 130				06/13/24 16:25	06/17/24 22:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	517		4.96		mg/Kg			06/14/24 10:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-5 (1.5')

Lab Sample ID: 880-44729-21

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/13/24 13:46	06/14/24 05:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/13/24 13:46	06/14/24 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	06/13/24 13:46	06/14/24 05:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/13/24 13:46	06/14/24 05:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 22:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 22:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 22:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/13/24 16:25	06/17/24 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	06/13/24 16:25	06/17/24 22:37	1
o-Terphenyl	65	S1-	70 - 130	06/13/24 16:25	06/17/24 22:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		25.0		mg/Kg			06/14/24 10:36	5

Client Sample ID: T-5 (2')

Lab Sample ID: 880-44729-22

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/13/24 13:46	06/14/24 05:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/13/24 13:46	06/14/24 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/13/24 13:46	06/14/24 05:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/13/24 13:46	06/14/24 05:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-5 (2')

Lab Sample ID: 880-44729-22

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 05:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 22:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 22:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 22:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				06/13/24 16:25	06/17/24 22:54	1
o-Terphenyl	70		70 - 130				06/13/24 16:25	06/17/24 22:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2530		25.2		mg/Kg			06/14/24 10:51	5

Client Sample ID: T-5 (3')

Lab Sample ID: 880-44729-23

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:46	06/14/24 06:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/13/24 13:46	06/14/24 06:19	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/13/24 13:46	06/14/24 06:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/14/24 06:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 23:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 23:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 23:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-5 (3')
Date Collected: 06/12/24 00:00
Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-23
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/24 16:25	06/17/24 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				06/13/24 16:25	06/17/24 23:10	1
o-Terphenyl	72		70 - 130				06/13/24 16:25	06/17/24 23:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	941		5.05		mg/Kg			06/14/24 10:56	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	BFB1	DFBZ1						
		(70-130)	(70-130)						
880-44729-1	T-1 (0-1')	104	102						
880-44729-1 MS	T-1 (0-1')	102	99						
880-44729-1 MSD	T-1 (0-1')	102	99						
880-44729-2	T-1 (1.5')	101	101						
880-44729-3	T-1 (2')	100	100						
880-44729-4	T-1 (3')	103	102						
880-44729-5	T-1 (4')	102	101						
880-44729-6	T-2 (0-1')	101	100						
880-44729-7	T-2 (1.5')	102	102						
880-44729-8	T-2 (2')	102	102						
880-44729-9	T-2 (3')	102	101						
880-44729-10	T-2 (4')	102	101						
880-44729-11	T-3 (0-1')	103	102						
880-44729-12	T-3 (1.5')	101	100						
880-44729-13	T-3 (2')	103	103						
880-44729-14	T-3 (3')	102	101						
880-44729-15	T-3 (4')	101	100						
880-44729-16	T-4 (0-1')	102	102						
880-44729-17	T-4 (1.5')	101	101						
880-44729-18	T-4 (2')	102	102						
880-44729-19	T-4 (3')	102	102						
880-44729-20	T-5 (0-1')	101	101						
880-44729-21	T-5 (1.5')	118	95						
880-44729-22	T-5 (2')	107	96						
880-44729-23	T-5 (3')	106	96						
890-6835-A-41-E MS	Matrix Spike	107	101						
890-6835-A-41-F MSD	Matrix Spike Duplicate	106	102						
LCS 880-83107/1-A	Lab Control Sample	106	103						
LCS 880-83119/1-A	Lab Control Sample	101	99						
LCSD 880-83107/2-A	Lab Control Sample Dup	105	101						
LCSD 880-83119/2-A	Lab Control Sample Dup	100	99						
MB 880-82991/5-A	Method Blank	109	94						
MB 880-83004/5-A	Method Blank	99	98						
MB 880-83107/5-A	Method Blank	108	93						
MB 880-83119/5-A	Method Blank	99	99						
Surrogate Legend									
BFB = 4-Bromofluorobenzene (Surr)									
DFBZ = 1,4-Difluorobenzene (Surr)									

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-44729-1	T-1 (0-1')	88	80				
880-44729-2	T-1 (1.5')	87	87				
880-44729-3	T-1 (2')	84	78				
880-44729-4	T-1 (3')	89	80				

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-44729-1

Project/Site: Columbus Fee 23-24 SWD Line

SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44729-5	T-1 (4')	102	95
880-44729-6	T-2 (0-1')	106	102
880-44729-7	T-2 (1.5')	97	91
880-44729-8	T-2 (2')	83	78
880-44729-9	T-2 (3')	99	91
880-44729-10	T-2 (4')	88	85
880-44729-11	T-3 (0-1')	67 S1-	60 S1-
880-44729-11 MS	T-3 (0-1')	80	65 S1-
880-44729-11 MSD	T-3 (0-1')	81	65 S1-
880-44729-12	T-3 (1.5')	75	66 S1-
880-44729-13	T-3 (2')	80	72
880-44729-14	T-3 (3')	85	76
880-44729-15	T-3 (4')	72	66 S1-
880-44729-16	T-4 (0-1')	78	72
880-44729-17	T-4 (1.5')	76	66 S1-
880-44729-18	T-4 (2')	84	73
880-44729-19	T-4 (3')	70	62 S1-
880-44729-20	T-5 (0-1')	70	61 S1-
880-44729-21	T-5 (1.5')	74	65 S1-
880-44729-22	T-5 (2')	80	70
880-44729-23	T-5 (3')	82	72
890-6830-A-67-E MS	Matrix Spike	104	92
890-6830-A-67-F MSD	Matrix Spike Duplicate	103	90
LCS 880-83153/2-A	Lab Control Sample	106	86
LCS 880-83154/2-A	Lab Control Sample	101	93
LCSD 880-83153/3-A	Lab Control Sample Dup	110	87
LCSD 880-83154/3-A	Lab Control Sample Dup	84	78
MB 880-83153/1-A	Method Blank	93	85
MB 880-83154/1-A	Method Blank	79	68 S1-

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-82991/5-A

Matrix: Solid

Analysis Batch: 83056

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 82991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/24 12:06	06/13/24 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/24 12:06	06/13/24 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/24 12:06	06/13/24 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/24 12:06	06/13/24 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/24 12:06	06/13/24 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/24 12:06	06/13/24 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/12/24 12:06	06/13/24 11:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/12/24 12:06	06/13/24 11:15	1

Lab Sample ID: MB 880-83004/5-A

Matrix: Solid

Analysis Batch: 83054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/24 12:37	06/13/24 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/24 12:37	06/13/24 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/24 12:37	06/13/24 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/24 12:37	06/13/24 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/24 12:37	06/13/24 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/24 12:37	06/13/24 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/12/24 12:37	06/13/24 11:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/12/24 12:37	06/13/24 11:10	1

Lab Sample ID: MB 880-83107/5-A

Matrix: Solid

Analysis Batch: 83056

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 11:46	06/13/24 22:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 11:46	06/13/24 22:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 11:46	06/13/24 22:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 11:46	06/13/24 22:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 11:46	06/13/24 22:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 11:46	06/13/24 22:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/13/24 11:46	06/13/24 22:16	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/13/24 11:46	06/13/24 22:16	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-83107/1-A

Matrix: Solid

Analysis Batch: 83056

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1206		mg/Kg		121	70 - 130
Toluene	0.100	0.1074		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2187		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-83107/2-A

Matrix: Solid

Analysis Batch: 83056

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83107

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1138		mg/Kg		114	70 - 130	6	35
Toluene	0.100	0.1015		mg/Kg		101	70 - 130	6	35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2064		mg/Kg		103	70 - 130	6	35
o-Xylene	0.100	0.1035		mg/Kg		103	70 - 130	6	35

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

Lab Sample ID: 890-6835-A-41-E MS

Matrix: Solid

Analysis Batch: 83056

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 83107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1130		mg/Kg		113	70 - 130
Toluene	<0.00199	U	0.100	0.09802		mg/Kg		98	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.09264		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1885		mg/Kg		94	70 - 130
o-Xylene	<0.00199	U	0.100	0.09299		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-6835-A-41-F MSD

Matrix: Solid

Analysis Batch: 83056

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 83107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.1115		mg/Kg		112	70 - 130	1	35
Toluene	<0.00199	U	0.0998	0.09512		mg/Kg		95	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.0998	0.08739		mg/Kg		88	70 - 130	6	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

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

Lab Sample ID: 890-6835-A-41-F MSD

Matrix: Solid

Analysis Batch: 83056

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 83107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1755		mg/Kg		88	70 - 130	7	35
o-Xylene	<0.00199	U	0.0998	0.08689		mg/Kg		87	70 - 130	7	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

Lab Sample ID: MB 880-83119/5-A

Matrix: Solid

Analysis Batch: 83054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 21:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 21:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 21:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/13/24 13:36	06/13/24 21:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/13/24 13:36	06/13/24 21:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/13/24 13:36	06/13/24 21:53	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				06/13/24 13:36	06/13/24 21:53	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/13/24 13:36	06/13/24 21:53	1

Lab Sample ID: LCS 880-83119/1-A

Matrix: Solid

Analysis Batch: 83054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1080		mg/Kg		108	70 - 130
Toluene	0.100	0.1042		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2154		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	101		70 - 130				
1,4-Difluorobenzene (Surr)	99		70 - 130				

Lab Sample ID: LCSD 880-83119/2-A

Matrix: Solid

Analysis Batch: 83054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	2	35
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	2	35
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2216		mg/Kg		111	70 - 130	3	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

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

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

Lab Sample ID: 880-44729-1 MS

Matrix: Solid

Analysis Batch: 83054

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 83119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.1035		mg/Kg		104	70 - 130
Toluene	<0.00198	U	0.0996	0.09998		mg/Kg		100	70 - 130
Ethylbenzene	<0.00198	U	0.0996	0.09774		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2064		mg/Kg		104	70 - 130
o-Xylene	<0.00198	U	0.0996	0.1017		mg/Kg		102	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-44729-1 MSD

Matrix: Solid

Analysis Batch: 83054

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 83119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00198	U	0.101	0.1045		mg/Kg		104	70 - 130	1	35
Toluene	<0.00198	U	0.101	0.1007		mg/Kg		100	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.101	0.09850		mg/Kg		98	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2081		mg/Kg		103	70 - 130	1	35
o-Xylene	<0.00198	U	0.101	0.1027		mg/Kg		102	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-83153/1-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:20	06/14/24 19:08	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	93		70 - 130	06/13/24 16:20	06/14/24 19:08	1			
o-Terphenyl	85		70 - 130	06/13/24 16:20	06/14/24 19:08	1			

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-83153/2-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83153

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	939.5		mg/Kg		94		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	863.8		mg/Kg		86		70 - 130	
Surrogate	LCS		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	106		70 - 130								
o-Terphenyl	86		70 - 130								

Lab Sample ID: LCSD 880-83153/3-A

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83153

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	969.3		mg/Kg		97	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	916.3		mg/Kg		92	70 - 130	6	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	110		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: 890-6830-A-67-E MS

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 83153

	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	709.4		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	720.0		mg/Kg		72	70 - 130		

Lab Sample ID: 890-6830-A-67-F MSD

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 83153

	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	756.9		mg/Kg		76	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	705.2		mg/Kg		71	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

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

Lab Sample ID: 890-6830-A-67-F MSD

Matrix: Solid

Analysis Batch: 83189

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 83153

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	90		70 - 130

Lab Sample ID: MB 880-83154/1-A

Matrix: Solid

Analysis Batch: 83278

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83154

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/24 16:25	06/17/24 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				06/13/24 16:25	06/17/24 18:04	1
<i>o</i> -Terphenyl	68	S1-	70 - 130				06/13/24 16:25	06/17/24 18:04	1

Lab Sample ID: LCS 880-83154/2-A

Matrix: Solid

Analysis Batch: 83278

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1046		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	953.6		mg/Kg		95	70 - 130
Surrogate		LCS %Recovery	LCS Qualifier	Limits			
1-Chlorooctane		101		70 - 130			
<i>o</i> -Terphenyl		93		70 - 130			

Lab Sample ID: LCSD 880-83154/3-A

Matrix: Solid

Analysis Batch: 83278

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83154

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	857.1		mg/Kg		86	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	792.4		mg/Kg		79	70 - 130	18	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		84		70 - 130					
<i>o</i> -Terphenyl		78		70 - 130					

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

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

Lab Sample ID: 880-44729-11 MS

Matrix: Solid

Analysis Batch: 83278

Client Sample ID: T-3 (0-1')

Prep Type: Total/NA

Prep Batch: 83154

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	627.8	F1	mg/Kg		63	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	543.1	F1	mg/Kg		55	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	80		70 - 130						
o-Terphenyl	65	S1-	70 - 130						

Lab Sample ID: 880-44729-11 MSD

Matrix: Solid

Analysis Batch: 83278

Client Sample ID: T-3 (0-1')

Prep Type: Total/NA

Prep Batch: 83154

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	629.4	F1	mg/Kg		63	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	551.9	F1	mg/Kg		55	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	81		70 - 130								
o-Terphenyl	65	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83148/1-A

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/14/24 08:47	1

Lab Sample ID: LCS 880-83148/2-A

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-83148/3-A

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.7		mg/Kg		100	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-44729-1 MS

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: T-1 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	386	F1	1240	1760	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-44729-1 MSD

Matrix: Solid

Analysis Batch: 83203

Client Sample ID: T-1 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	386	F1	1240	1728		mg/Kg		108	90 - 110	2	20

Lab Sample ID: MB 880-83149/1-A

Matrix: Solid

Analysis Batch: 83205

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/14/24 09:11	1

Lab Sample ID: LCS 880-83149/2-A

Matrix: Solid

Analysis Batch: 83205

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.0		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-83149/3-A

Matrix: Solid

Analysis Batch: 83205

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.1		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-44729-11 MS

Matrix: Solid

Analysis Batch: 83205

Client Sample ID: T-3 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	988		252	1213		mg/Kg		90	90 - 110

Lab Sample ID: 880-44729-11 MSD

Matrix: Solid

Analysis Batch: 83205

Client Sample ID: T-3 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	988		252	1216		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-44729-21 MS

Matrix: Solid

Analysis Batch: 83205

Client Sample ID: T-5 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2280		1250	3587		mg/Kg		105	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-44729-21 MSD

Client Sample ID: T-5 (1.5')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 83205

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride	2280		1250	3590		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC VOA

Prep Batch: 82991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-82991/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 83004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-83004/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 83054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	8021B	83119
880-44729-2	T-1 (1.5')	Total/NA	Solid	8021B	83119
880-44729-3	T-1 (2')	Total/NA	Solid	8021B	83119
880-44729-4	T-1 (3')	Total/NA	Solid	8021B	83119
880-44729-5	T-1 (4')	Total/NA	Solid	8021B	83119
880-44729-6	T-2 (0-1')	Total/NA	Solid	8021B	83119
880-44729-7	T-2 (1.5')	Total/NA	Solid	8021B	83119
880-44729-8	T-2 (2')	Total/NA	Solid	8021B	83119
880-44729-9	T-2 (3')	Total/NA	Solid	8021B	83119
880-44729-10	T-2 (4')	Total/NA	Solid	8021B	83119
880-44729-11	T-3 (0-1')	Total/NA	Solid	8021B	83119
880-44729-12	T-3 (1.5')	Total/NA	Solid	8021B	83119
880-44729-13	T-3 (2')	Total/NA	Solid	8021B	83119
880-44729-14	T-3 (3')	Total/NA	Solid	8021B	83119
880-44729-15	T-3 (4')	Total/NA	Solid	8021B	83119
880-44729-16	T-4 (0-1')	Total/NA	Solid	8021B	83119
880-44729-17	T-4 (1.5')	Total/NA	Solid	8021B	83119
880-44729-18	T-4 (2')	Total/NA	Solid	8021B	83119
880-44729-19	T-4 (3')	Total/NA	Solid	8021B	83119
880-44729-20	T-5 (0-1')	Total/NA	Solid	8021B	83119
MB 880-83004/5-A	Method Blank	Total/NA	Solid	8021B	83004
MB 880-83119/5-A	Method Blank	Total/NA	Solid	8021B	83119
LCS 880-83119/1-A	Lab Control Sample	Total/NA	Solid	8021B	83119
LCSD 880-83119/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83119
880-44729-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	83119
880-44729-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	83119

Analysis Batch: 83056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-21	T-5 (1.5')	Total/NA	Solid	8021B	83107
880-44729-22	T-5 (2')	Total/NA	Solid	8021B	83107
880-44729-23	T-5 (3')	Total/NA	Solid	8021B	83107
MB 880-82991/5-A	Method Blank	Total/NA	Solid	8021B	82991
MB 880-83107/5-A	Method Blank	Total/NA	Solid	8021B	83107
LCS 880-83107/1-A	Lab Control Sample	Total/NA	Solid	8021B	83107
LCSD 880-83107/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83107
890-6835-A-41-E MS	Matrix Spike	Total/NA	Solid	8021B	83107
890-6835-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	83107

Prep Batch: 83107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-21	T-5 (1.5')	Total/NA	Solid	5035	
880-44729-22	T-5 (2')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 83107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-23	T-5 (3')	Total/NA	Solid	5035	
MB 880-83107/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83107/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83107/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6835-A-41-E MS	Matrix Spike	Total/NA	Solid	5035	
890-6835-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 83119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	5035	
880-44729-2	T-1 (1.5')	Total/NA	Solid	5035	
880-44729-3	T-1 (2')	Total/NA	Solid	5035	
880-44729-4	T-1 (3')	Total/NA	Solid	5035	
880-44729-5	T-1 (4')	Total/NA	Solid	5035	
880-44729-6	T-2 (0-1')	Total/NA	Solid	5035	
880-44729-7	T-2 (1.5')	Total/NA	Solid	5035	
880-44729-8	T-2 (2')	Total/NA	Solid	5035	
880-44729-9	T-2 (3')	Total/NA	Solid	5035	
880-44729-10	T-2 (4')	Total/NA	Solid	5035	
880-44729-11	T-3 (0-1')	Total/NA	Solid	5035	
880-44729-12	T-3 (1.5')	Total/NA	Solid	5035	
880-44729-13	T-3 (2')	Total/NA	Solid	5035	
880-44729-14	T-3 (3')	Total/NA	Solid	5035	
880-44729-15	T-3 (4')	Total/NA	Solid	5035	
880-44729-16	T-4 (0-1')	Total/NA	Solid	5035	
880-44729-17	T-4 (1.5')	Total/NA	Solid	5035	
880-44729-18	T-4 (2')	Total/NA	Solid	5035	
880-44729-19	T-4 (3')	Total/NA	Solid	5035	
880-44729-20	T-5 (0-1')	Total/NA	Solid	5035	
MB 880-83119/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83119/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83119/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44729-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-44729-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 83259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-44729-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-44729-5	T-1 (4')	Total/NA	Solid	Total BTEX	
880-44729-6	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-7	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-8	T-2 (2')	Total/NA	Solid	Total BTEX	
880-44729-9	T-2 (3')	Total/NA	Solid	Total BTEX	
880-44729-10	T-2 (4')	Total/NA	Solid	Total BTEX	
880-44729-11	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-12	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-13	T-3 (2')	Total/NA	Solid	Total BTEX	
880-44729-14	T-3 (3')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 83259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-15	T-3 (4')	Total/NA	Solid	Total BTEX	
880-44729-16	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-17	T-4 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-18	T-4 (2')	Total/NA	Solid	Total BTEX	
880-44729-19	T-4 (3')	Total/NA	Solid	Total BTEX	
880-44729-20	T-5 (0-1')	Total/NA	Solid	Total BTEX	
880-44729-21	T-5 (1.5')	Total/NA	Solid	Total BTEX	
880-44729-22	T-5 (2')	Total/NA	Solid	Total BTEX	
880-44729-23	T-5 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-44729-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-44729-5	T-1 (4')	Total/NA	Solid	8015NM Prep	
880-44729-6	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-7	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-8	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-44729-9	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-44729-10	T-2 (4')	Total/NA	Solid	8015NM Prep	
MB 880-83153/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83153/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6830-A-67-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6830-A-67-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 83154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-12	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-13	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-44729-14	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-44729-15	T-3 (4')	Total/NA	Solid	8015NM Prep	
880-44729-16	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-17	T-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-18	T-4 (2')	Total/NA	Solid	8015NM Prep	
880-44729-19	T-4 (3')	Total/NA	Solid	8015NM Prep	
880-44729-20	T-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-21	T-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-44729-22	T-5 (2')	Total/NA	Solid	8015NM Prep	
880-44729-23	T-5 (3')	Total/NA	Solid	8015NM Prep	
MB 880-83154/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83154/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-44729-11 MS	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-44729-11 MSD	T-3 (0-1')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 83189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	8015B NM	83153
880-44729-2	T-1 (1.5')	Total/NA	Solid	8015B NM	83153
880-44729-3	T-1 (2')	Total/NA	Solid	8015B NM	83153
880-44729-4	T-1 (3')	Total/NA	Solid	8015B NM	83153
880-44729-5	T-1 (4')	Total/NA	Solid	8015B NM	83153
880-44729-6	T-2 (0-1')	Total/NA	Solid	8015B NM	83153
880-44729-7	T-2 (1.5')	Total/NA	Solid	8015B NM	83153
880-44729-8	T-2 (2')	Total/NA	Solid	8015B NM	83153
880-44729-9	T-2 (3')	Total/NA	Solid	8015B NM	83153
880-44729-10	T-2 (4')	Total/NA	Solid	8015B NM	83153
MB 880-83153/1-A	Method Blank	Total/NA	Solid	8015B NM	83153
LCS 880-83153/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83153
LCSD 880-83153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83153
890-6830-A-67-E MS	Matrix Spike	Total/NA	Solid	8015B NM	83153
890-6830-A-67-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	83153

Analysis Batch: 83278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11	T-3 (0-1')	Total/NA	Solid	8015B NM	83154
880-44729-12	T-3 (1.5')	Total/NA	Solid	8015B NM	83154
880-44729-13	T-3 (2')	Total/NA	Solid	8015B NM	83154
880-44729-14	T-3 (3')	Total/NA	Solid	8015B NM	83154
880-44729-15	T-3 (4')	Total/NA	Solid	8015B NM	83154
880-44729-16	T-4 (0-1')	Total/NA	Solid	8015B NM	83154
880-44729-17	T-4 (1.5')	Total/NA	Solid	8015B NM	83154
880-44729-18	T-4 (2')	Total/NA	Solid	8015B NM	83154
880-44729-19	T-4 (3')	Total/NA	Solid	8015B NM	83154
880-44729-20	T-5 (0-1')	Total/NA	Solid	8015B NM	83154
880-44729-21	T-5 (1.5')	Total/NA	Solid	8015B NM	83154
880-44729-22	T-5 (2')	Total/NA	Solid	8015B NM	83154
880-44729-23	T-5 (3')	Total/NA	Solid	8015B NM	83154
MB 880-83154/1-A	Method Blank	Total/NA	Solid	8015B NM	83154
LCS 880-83154/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83154
LCSD 880-83154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83154
880-44729-11 MS	T-3 (0-1')	Total/NA	Solid	8015B NM	83154
880-44729-11 MSD	T-3 (0-1')	Total/NA	Solid	8015B NM	83154

Analysis Batch: 83335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-44729-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-44729-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-44729-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-44729-5	T-1 (4')	Total/NA	Solid	8015 NM	
880-44729-6	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-44729-7	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-44729-8	T-2 (2')	Total/NA	Solid	8015 NM	
880-44729-9	T-2 (3')	Total/NA	Solid	8015 NM	
880-44729-10	T-2 (4')	Total/NA	Solid	8015 NM	
880-44729-11	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-44729-12	T-3 (1.5')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 83335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-13	T-3 (2')	Total/NA	Solid	8015 NM	
880-44729-14	T-3 (3')	Total/NA	Solid	8015 NM	
880-44729-15	T-3 (4')	Total/NA	Solid	8015 NM	
880-44729-16	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-44729-17	T-4 (1.5')	Total/NA	Solid	8015 NM	
880-44729-18	T-4 (2')	Total/NA	Solid	8015 NM	
880-44729-19	T-4 (3')	Total/NA	Solid	8015 NM	
880-44729-20	T-5 (0-1')	Total/NA	Solid	8015 NM	
880-44729-21	T-5 (1.5')	Total/NA	Solid	8015 NM	
880-44729-22	T-5 (2')	Total/NA	Solid	8015 NM	
880-44729-23	T-5 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-44729-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-44729-3	T-1 (2')	Soluble	Solid	DI Leach	
880-44729-4	T-1 (3')	Soluble	Solid	DI Leach	
880-44729-5	T-1 (4')	Soluble	Solid	DI Leach	
880-44729-6	T-2 (0-1')	Soluble	Solid	DI Leach	
880-44729-7	T-2 (1.5')	Soluble	Solid	DI Leach	
880-44729-8	T-2 (2')	Soluble	Solid	DI Leach	
880-44729-9	T-2 (3')	Soluble	Solid	DI Leach	
880-44729-10	T-2 (4')	Soluble	Solid	DI Leach	
MB 880-83148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83148/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44729-1 MS	T-1 (0-1')	Soluble	Solid	DI Leach	
880-44729-1 MSD	T-1 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 83149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11	T-3 (0-1')	Soluble	Solid	DI Leach	
880-44729-12	T-3 (1.5')	Soluble	Solid	DI Leach	
880-44729-13	T-3 (2')	Soluble	Solid	DI Leach	
880-44729-14	T-3 (3')	Soluble	Solid	DI Leach	
880-44729-15	T-3 (4')	Soluble	Solid	DI Leach	
880-44729-16	T-4 (0-1')	Soluble	Solid	DI Leach	
880-44729-17	T-4 (1.5')	Soluble	Solid	DI Leach	
880-44729-18	T-4 (2')	Soluble	Solid	DI Leach	
880-44729-19	T-4 (3')	Soluble	Solid	DI Leach	
880-44729-20	T-5 (0-1')	Soluble	Solid	DI Leach	
880-44729-21	T-5 (1.5')	Soluble	Solid	DI Leach	
880-44729-22	T-5 (2')	Soluble	Solid	DI Leach	
880-44729-23	T-5 (3')	Soluble	Solid	DI Leach	
MB 880-83149/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83149/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83149/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44729-11 MS	T-3 (0-1')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 83149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11 MSD	T-3 (0-1')	Soluble	Solid	DI Leach	
880-44729-21 MS	T-5 (1.5')	Soluble	Solid	DI Leach	
880-44729-21 MSD	T-5 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 83203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-1	T-1 (0-1')	Soluble	Solid	300.0	83148
880-44729-2	T-1 (1.5')	Soluble	Solid	300.0	83148
880-44729-3	T-1 (2')	Soluble	Solid	300.0	83148
880-44729-4	T-1 (3')	Soluble	Solid	300.0	83148
880-44729-5	T-1 (4')	Soluble	Solid	300.0	83148
880-44729-6	T-2 (0-1')	Soluble	Solid	300.0	83148
880-44729-7	T-2 (1.5')	Soluble	Solid	300.0	83148
880-44729-8	T-2 (2')	Soluble	Solid	300.0	83148
880-44729-9	T-2 (3')	Soluble	Solid	300.0	83148
880-44729-10	T-2 (4')	Soluble	Solid	300.0	83148
MB 880-83148/1-A	Method Blank	Soluble	Solid	300.0	83148
LCS 880-83148/2-A	Lab Control Sample	Soluble	Solid	300.0	83148
LCSD 880-83148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83148
880-44729-1 MS	T-1 (0-1')	Soluble	Solid	300.0	83148
880-44729-1 MSD	T-1 (0-1')	Soluble	Solid	300.0	83148

Analysis Batch: 83205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44729-11	T-3 (0-1')	Soluble	Solid	300.0	83149
880-44729-12	T-3 (1.5')	Soluble	Solid	300.0	83149
880-44729-13	T-3 (2')	Soluble	Solid	300.0	83149
880-44729-14	T-3 (3')	Soluble	Solid	300.0	83149
880-44729-15	T-3 (4')	Soluble	Solid	300.0	83149
880-44729-16	T-4 (0-1')	Soluble	Solid	300.0	83149
880-44729-17	T-4 (1.5')	Soluble	Solid	300.0	83149
880-44729-18	T-4 (2')	Soluble	Solid	300.0	83149
880-44729-19	T-4 (3')	Soluble	Solid	300.0	83149
880-44729-20	T-5 (0-1')	Soluble	Solid	300.0	83149
880-44729-21	T-5 (1.5')	Soluble	Solid	300.0	83149
880-44729-22	T-5 (2')	Soluble	Solid	300.0	83149
880-44729-23	T-5 (3')	Soluble	Solid	300.0	83149
MB 880-83149/1-A	Method Blank	Soluble	Solid	300.0	83149
LCS 880-83149/2-A	Lab Control Sample	Soluble	Solid	300.0	83149
LCSD 880-83149/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83149
880-44729-11 MS	T-3 (0-1')	Soluble	Solid	300.0	83149
880-44729-11 MSD	T-3 (0-1')	Soluble	Solid	300.0	83149
880-44729-21 MS	T-5 (1.5')	Soluble	Solid	300.0	83149
880-44729-21 MSD	T-5 (1.5')	Soluble	Solid	300.0	83149

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-44729-1

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/13/24 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/13/24 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/14/24 23:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 23:20	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83203	06/14/24 10:28	CH	EET MID

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-44729-2

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/13/24 22:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/13/24 22:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/14/24 23:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 23:37	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 10:46	CH	EET MID

Client Sample ID: T-1 (2')

Lab Sample ID: 880-44729-3

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/13/24 22:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/13/24 22:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/14/24 23:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/14/24 23:52	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 10:52	CH	EET MID

Client Sample ID: T-1 (3')

Lab Sample ID: 880-44729-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/13/24 23:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/13/24 23:16	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-1 (3')

Lab Sample ID: 880-44729-4

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			83335	06/15/24 00:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/15/24 00:08	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 11:09	CH	EET MID

Client Sample ID: T-1 (4')

Lab Sample ID: 880-44729-5

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/13/24 23:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/13/24 23:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/15/24 00:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/15/24 00:24	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 11:15	CH	EET MID

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-44729-6

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/13/24 23:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/13/24 23:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/15/24 09:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/15/24 09:42	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	83203	06/14/24 11:21	CH	EET MID

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-44729-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 00:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 00:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/15/24 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/15/24 09:56	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-44729-7

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	83203	06/14/24 11:27	CH	EET MID

Client Sample ID: T-2 (2')

Lab Sample ID: 880-44729-8

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 00:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 00:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/15/24 10:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/15/24 10:11	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83203	06/14/24 11:33	CH	EET MID

Client Sample ID: T-2 (3')

Lab Sample ID: 880-44729-9

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 00:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 00:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/15/24 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/15/24 10:26	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83203	06/14/24 11:39	CH	EET MID

Client Sample ID: T-2 (4')

Lab Sample ID: 880-44729-10

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 01:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 01:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/15/24 10:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83153	06/13/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83189	06/15/24 10:41	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	83148	06/13/24 15:19	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83203	06/14/24 11:45	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-44729-11

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 02:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 02:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 18:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 18:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83205	06/14/24 09:26	CH	EET MID

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-44729-12

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 03:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 19:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 19:49	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83205	06/14/24 09:41	CH	EET MID

Client Sample ID: T-3 (2')

Lab Sample ID: 880-44729-13

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 03:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 03:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 20:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 20:06	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	83205	06/14/24 09:46	CH	EET MID

Client Sample ID: T-3 (3')

Lab Sample ID: 880-44729-14

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 03:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 03:43	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-3 (3')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			83335	06/17/24 20:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 20:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83205	06/14/24 09:51	CH	EET MID

Client Sample ID: T-3 (4')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 04:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 04:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 20:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 20:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83205	06/14/24 09:56	CH	EET MID

Client Sample ID: T-4 (0-1')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 04:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 04:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 20:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 20:57	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83205	06/14/24 10:11	CH	EET MID

Client Sample ID: T-4 (1.5')

Date Collected: 06/12/24 00:00

Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 04:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 04:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 21:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 21:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-4 (1.5')
Date Collected: 06/12/24 00:00
Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83205	06/14/24 10:16	CH	EET MID

Client Sample ID: T-4 (2')
Date Collected: 06/12/24 00:00
Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 05:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 05:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 21:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 21:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83205	06/14/24 10:21	CH	EET MID

Client Sample ID: T-4 (3')
Date Collected: 06/12/24 00:00
Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 05:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 05:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 21:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 21:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83205	06/14/24 10:26	CH	EET MID

Client Sample ID: T-5 (0-1')
Date Collected: 06/12/24 00:00
Date Received: 06/13/24 13:20

Lab Sample ID: 880-44729-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83119	06/13/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83054	06/14/24 05:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 05:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 22:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 22:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83205	06/14/24 10:31	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Client Sample ID: T-5 (1.5')

Lab Sample ID: 880-44729-21

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	83107	06/13/24 13:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83056	06/14/24 05:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 05:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 22:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 22:37	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83205	06/14/24 10:36	CH	EET MID

Client Sample ID: T-5 (2')

Lab Sample ID: 880-44729-22

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	83107	06/13/24 13:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83056	06/14/24 05:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 05:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 22:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 22:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	83205	06/14/24 10:51	CH	EET MID

Client Sample ID: T-5 (3')

Lab Sample ID: 880-44729-23

Date Collected: 06/12/24 00:00

Matrix: Solid

Date Received: 06/13/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	83107	06/13/24 13:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83056	06/14/24 06:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83259	06/14/24 06:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			83335	06/17/24 23:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83154	06/13/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83278	06/17/24 23:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	83149	06/13/24 15:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83205	06/14/24 10:56	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, 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 References:

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

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Columbus Fee 23-24 SWD Line

Job ID: 880-44729-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44729-1	T-1 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-2	T-1 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-3	T-1 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-4	T-1 (3')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-5	T-1 (4')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-6	T-2 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-7	T-2 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-8	T-2 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-9	T-2 (3')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-10	T-2 (4')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-11	T-3 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-12	T-3 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-13	T-3 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-14	T-3 (3')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-15	T-3 (4')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-16	T-4 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-17	T-4 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-18	T-4 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-19	T-4 (3')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-20	T-5 (0-1')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-21	T-5 (1.5')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-22	T-5 (2')	Solid	06/12/24 00:00	06/13/24 13:20
880-44729-23	T-5 (3')	Solid	06/12/24 00:00	06/13/24 13:20

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

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

880-44729 Chain of Custody

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/13/24		6/23/24 15:20

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

Chain of Custody

Work Order No: 44729

Page 2 of 3

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

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

Project Name:	Columbus Fee 23-24 SWD Line	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2330	Due Date:															None: NO	DI Water: H ₂ O	
Project Location:	Lea County, NM																Cool: Cool	MeOH: Me	
Submitter's Name:	CRM																HCL: HC	HNO ₃ : HN	
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No											H ₃ PO ₄ : HP		
Received intact:	Yes	No	Thermometer ID:											NaHSO ₄ : NABIS					
Caddy Custody Seal:	Yes	No	Correction Factor:											Na ₂ S ₂ O ₃ : NaSO ₃					
Seal Custody Seals:	Yes	No	Temperature Reading:											Zn Acetate+NaOH: Zn					
Ident Containers:	Corrected Temperature:													NaOH+Ascorbic Acid: SAPC					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
T-3 (0-1')	6/12/2024		X		G	1	X	X	X										
T-3 (1.5')	6/12/2024		X		G	1	X	X	X										
T-3 (2')	6/12/2024		X		G	1	X	X	X										
T-3 (3')	6/12/2024		X		G	1	X	X	X										
T-3 (4')	6/12/2024		X		G	1	X	X	X										
T-4 (0-1')	6/12/2024		X		G	1	X	X	X										
T-4 (1.5')	6/12/2024		X		G	1	X	X	X										
T-4 (2')	6/12/2024		X		G	1	X	X	X										
T-4 (3')	6/12/2024		X		G	1	X	X	X										
T-5 (0-1')	6/12/2024		X		G	1	X	X	X										

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/13/24		6/13/24 13:20

Chain of Custody

Work Order No: 44729

6/18/2024

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

Work Order Comments				
Program:	UST/ST	☐ RP	☐ Brownfields	☐ RC ☐ Superfund
State of Project:				
Reporting Level:	Level II ☐	Level III ☐	ST/UST ☐	RP ☐ Level IV ☐
Deliverables:	EDD ☐	ADAPT ☐	Other: ☐	

[illegible]

Comments: Email to Mike Cammona / Mcammona@cammonaresources.com and Conner Moehring / Cmoehring@cammonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6/13/24		6/13/24 1:30

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44729-1
SDG Number: Lea County, NM

Login Number: 44729
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800
www.arcadis.com

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District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 394599

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	394599
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409554213
Incident Name	NAPP2409554213 COLUMBUS FEE 23 & 24 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2203353212] Columbus Fee 23&24H CTB - Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COLUMBUS FEE 23 & 24
Date Release Discovered	04/04/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Other (Specify) Produced Water Released: 111 BBL Recovered: 75 BBL Lost: 36 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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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
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 394599

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	394599
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 04/08/2024
--	---

District I

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

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811 S. First St., Artesia, NM 88210
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QUESTIONS, Page 3

Action 394599

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	394599
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

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	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
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	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	8480
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	62.9
GRO+DRO	(EPA SW-846 Method 8015M)	62.9
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	11/04/2024
On what date will (or did) the final sampling or liner inspection occur	11/04/2024
On what date will (or was) the remediation complete(d)	11/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	4217
What is the estimated volume (in cubic yards) that will be reclaimed	1284
What is the estimated surface area (in square feet) that will be remediated	4217
What is the estimated volume (in cubic yards) that will be remediated	1284

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

District I

1625 N. French Dr., Hobbs, NM 88240
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District II

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District III

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

District IV

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

State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 394599

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	394599
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	Columbus Fee 23&24H CTB - Battery [fAPP2203353212]
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 efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 10/22/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 394599

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 394599
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 394599

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 394599
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 394599

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	394599
Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance request to collect confirmation every 400 ft2 is approved. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.	10/23/2024