



SITE INFORMATION

Closure Report

Firefox 4 Federal Com 005H (06.08.23)

Eddy County, New Mexico

Incident ID: NAPP2316649435

Unit L Sec 04 T19S R31E

32.6872°, -103.8805°

Eddy County, New Mexico

Produced Water Release

Point of Release: Corroded Water Line Check Valve

Release Date: 06.08.23

Volume Released: 0.159 Barrels of Produced Water

Volume Recovered: 0 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:

**Concho Operating, LLC
15 West London Road,
Loving, New Mexico 88256**

Prepared by:

**Carmona Resources, LLC
310 West Wall Street
Suite 500
Midland, Texas 79701**



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October 4, 2023

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

**Re: Closure Report
Firefox 4 Federal Com 005H (06.08.23)
Concho Operating, LLC
Site Location: Unit L, S04, T19S, R31E
(Lat 32.6872, Long -103.8805°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Firefox 4 Federal Com 005H. The site is located at 32.6872, -103.8805 within Unit L, S04, T19S, R31E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 8, 2023, due to a corroded water line check valve leak. It resulted in approximately zero point one five nine (0.159) barrels of produced water and zero (0) barrels of produced water recovered. The impacted area occurred in the pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 2.19 miles northeast of the site in S35, T18S, R31E and was drilled in 1994. The well has a reported depth to groundwater of 260.67 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On June 22, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) sample point (S-1) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 1.5' bgs inside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody



protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

While using a hand auger, a dense layer was encountered in the pasture around 1.25' - 1.5' bgs and could not grab deeper samples. See Table 1 for the analytical results.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOC division office was notified via email on August 18, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of eight (8) confirmation floor samples were collected (CS-1 through CS-8), and thirteen (13) sidewall samples (SW-1 through SW-13) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 192 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES

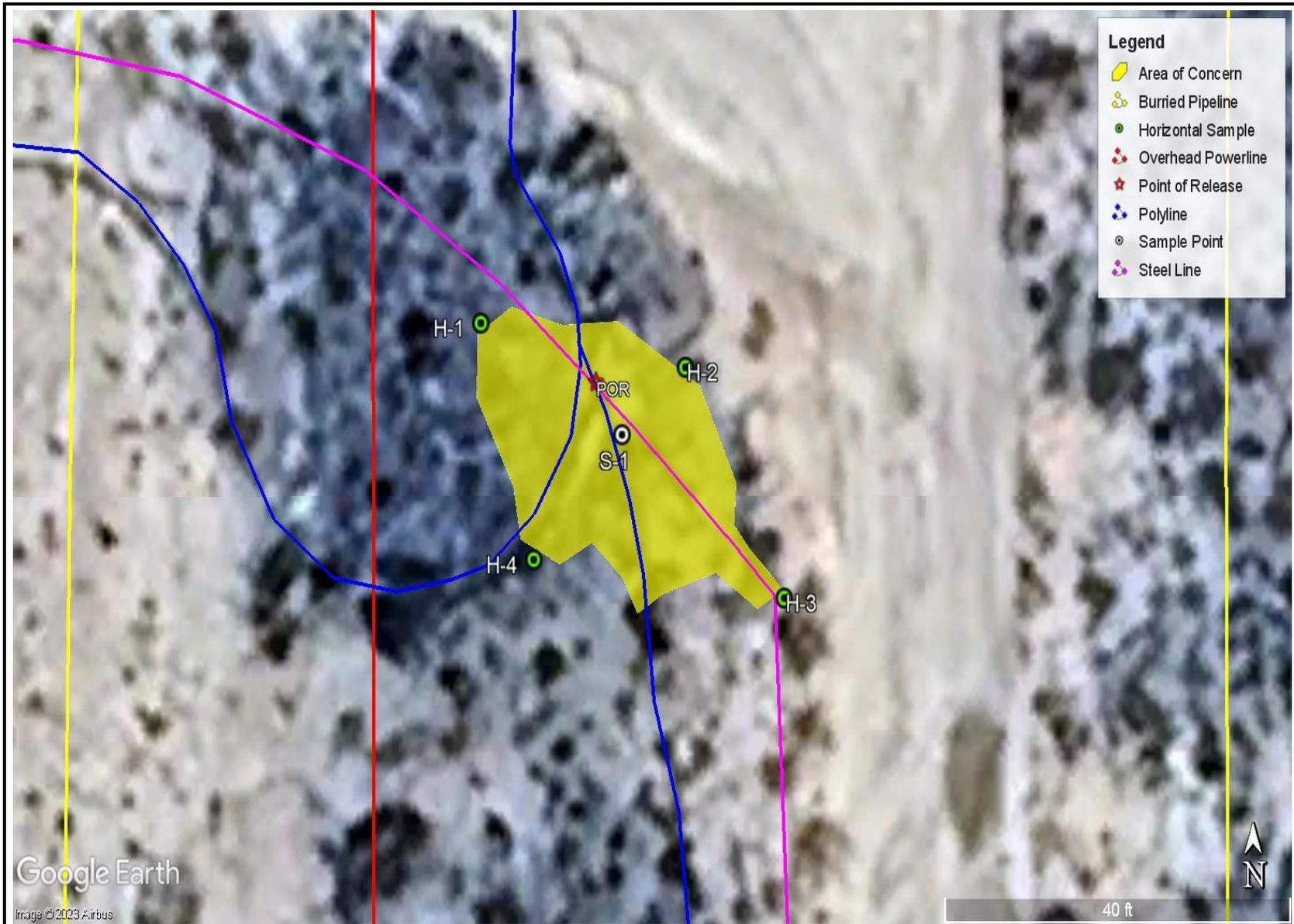




OVERVIEW MAP
COG OPERATING, LLC
FIREFOX 4 FEDERAL COM 005H (06.08.23)
EDDY COUNTY, NEW MEXICO
32.6872°, -103.8805°



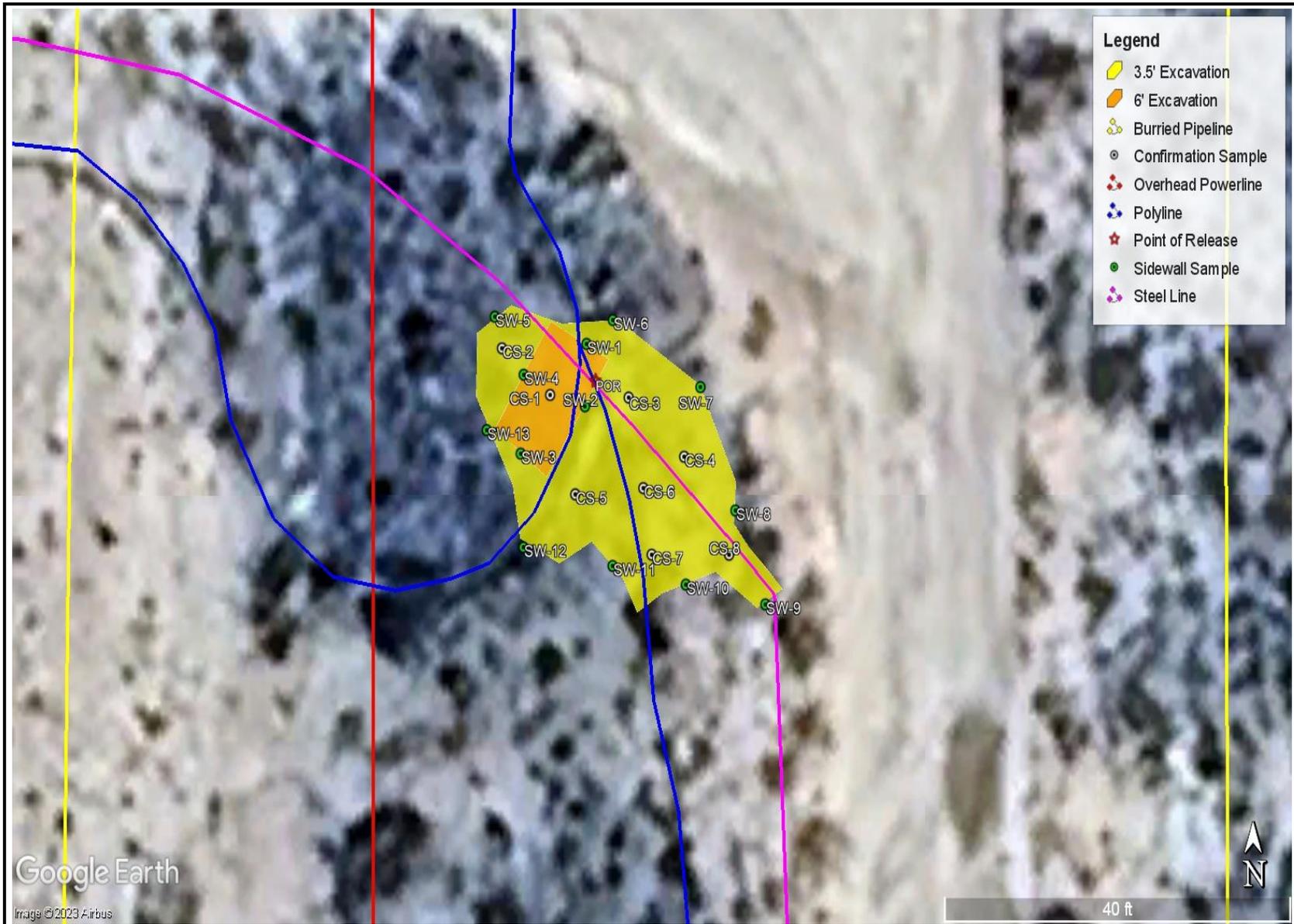
FIGURE 1



SAMPLE LOCATION MAP
COG OPERATING, LLC
FIREFOX 4 FEDERAL COM 005H (06.08.23)
EDDY COUNTY, NEW MEXICO
32.6872°, -103.8805°



FIGURE 3



EXCAVATION MAP
COG OPERATING, LLC
FIREFOX 4 FEDERAL COM 005H (06.08.23)
EDDY COUNTY, NEW MEXICO
32.6872°, -103.8805°



FIGURE 4

APPENDIX A

CARMONA RESOURCES



**Table 1
COG Operating
Firefox 4 Federal Com 005H (06.08.23)
Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	6/22/2023	0-0.5	<49.9	55.8	<49.9	55.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	18,200
	"	1	<49.8	<49.8	<49.8	<49.8	<0.0502	<0.0502	<0.0502	<0.100	<0.100	14,200
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.0498	<0.0498	<0.0498	<0.0996	<0.0996	14,500
H-1	6/22/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	45.7
H-2	6/22/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	54.4
H-3	6/22/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	70.4
H-4	6/22/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	137
<i>Regulatory Criteria^A</i>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

(H) Horizontals

 Removed

Table 2
COG Operating
Firefox 4 Federal Com 005H (06.08.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	8/22/2023	6.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-3	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-4	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-5	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-6	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-7	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-8	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-1	8/22/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	8/22/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	8/22/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-4	8/22/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-5	1/20/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-6	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-7	1/20/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-8	1/20/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-9	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-10	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-11	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-12	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-13	8/22/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<i>Regulatory Criteria^A</i>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

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

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Firefox 4 Federal Com 005H
(06.08.23)

County: Eddy County, New Mexico

Description:
View Northwest, area of CS-1 and CS-2.



Photograph No. 2

Facility: Firefox 4 Federal Com 005H
(06.08.23)

County: Eddy County, New Mexico

Description:
View North, area of CS-3 Through CS-7.



Photograph No. 3

Facility: Firefox 4 Federal Com 005H
(06.08.23)

County: Eddy County, New Mexico

Description:
View Southwest, area of CS-8.



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Firefox 4 Federal Com 005H
(06.08.23)

County: Eddy County, New Mexico

Description:
View Northwest, backfilled area of CS-1 and CS-2.



Photograph No. 5

Facility: Firefox 4 Federal Com 005H
(06.08.23)

County: Eddy County, New Mexico

Description:
View North, backfilled area of CS-3 through CS-7.

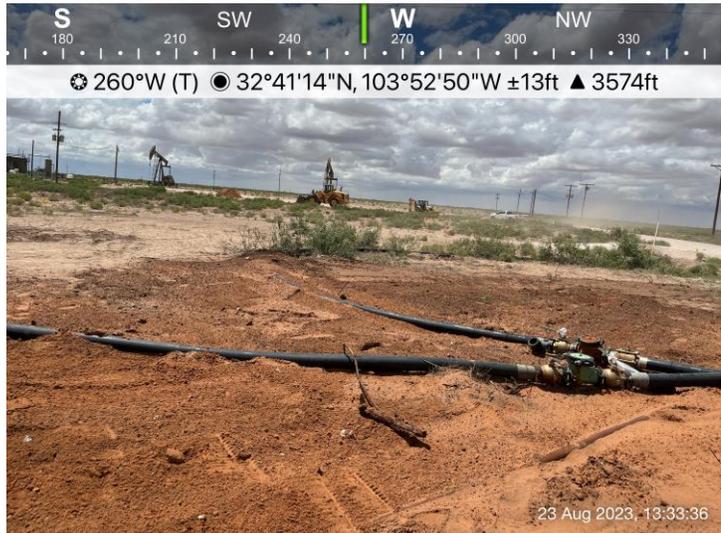


Photograph No. 6

Facility: Firefox 4 Federal Com 005H
(06.08.23)

County: Eddy County, New Mexico

Description:
View West, backfilled area of CS-8.



APPENDIX C

CARMONA RESOURCES



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)

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

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> 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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> 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></u> _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>06/15/2023</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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: Jaques Herms Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 10/11/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: Jaques Hennis Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 10/11/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

NAPP2316649435

L48 Spill Volume Estimate Form - Fill In Gray Cells										
Facility Name & Well Number(s):				Firefox			Release Discovery Date & Time:		6.8.23	
Provide any known details about the event:				check valve leaked			Primary Cause (dropdown):		Secondary Cause (dropdown):	
Recovered Volume (bbl.) (if available, not included in volume calculations)				Method of Determination (dropdown)	Release Type (dropdown):		> 1/2" of Rain in Last 24 Hours (dropdown):		% Rainwater Recovered (not included in volume calculations, informational):	
BU:	Permian	Asset Area:	DBW - Fine Sands	Field Measurement	Produced Water		No			
Known Volume (dropdown):				No						
Known Area (dropdown):				No						
Spill Calculation - Subsurface Spill - Cylinder							Remediation Recommendation			
Convert Irregular shape into a series of rectangles	Diameter (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³)	Current Rule of Thumb - RMR Handover Volume, (yd ³)		
Rectangle A	10.0	1.0	Off-Pad	13.69%	1.17	0.16	0.30	750		
Rectangle B					0.00		0.00			
Rectangle C					0.00		0.00			
Rectangle D					0.00		0.00			
Rectangle E					0.00		0.00			
Rectangle F					0.00		0.00			
Rectangle G					0.00		0.00			
Rectangle H					0.00		0.00			
Rectangle I					0.00		0.00			
Rectangle J					0.00		0.00			
Total Subsurface Volume Release:						0.1595	0.30	BU		

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

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

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

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

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

CONDITIONS
 Action 228752

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 228752
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/15/2023

From: Wells, Shelly, EMNRD
Sent: Friday, August 18, 2023 3:20 PM
To: Mike Carmona
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] COG Firefox 4 Federal Com 005H (06.08.23) Sampling Notification - Incident #NAPP2316649435

Good afternoon Mike,

The OCD has received your notification. Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Mike Carmona <Mcarmona@carmonaresources.com>
Sent: Friday, August 18, 2023 12:45 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Conner Moehring <Cmoehring@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>; Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Subject: [EXTERNAL] COG Firefox 4 Federal Com 005H (06.08.23) Sampling Notification - Incident #NAPP2316649435

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

All,

This email serves as a notification for confirmation sampling on the COG Firefox 4 Federal Com 005H (06.08.23). Sampling is scheduled to begin on Tuesday, August 22nd, around 8:00 a.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident #NAPP2316649435

Mike J. Carmona

310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

CARMONA RESOURCES



APPENDIX D

CARMONA RESOURCES



Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 2.19 Miles
- Firefox 4 Federal Com 005H (06.08.2023)
- USGS Water Well



Firefox 4 Federal Com 005H (06.08.2023)

260.67 - Drilled 1994



1 mi

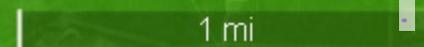
Low Karst

COG Operating

Legend

- Firefox 4 Federal Com 005H (06.08.2023)
- High
- Low
- Medium

Firefox 4 Federal Com 005H (06.08.2023)





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
CP 01907 POD1	CP	ED		4	2	2	18	19S	31E	603017	3614737	3102			
CP 00829 POD1	CP	LE			2	4	16	19S	31E	606165	3614009*	3382	120		
CP 00849 POD1	CP	LE		3	1	3	35	18S	31E	608012	3618757*	3452	300		

Average Depth to Water: --
Minimum Depth: --
Maximum Depth: --

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 604948

Northing (Y): 3617165

Radius: 4000

*UTM location was derived from PLSS - see Help

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



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 324159103503801

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

USGS 324159103503801 18S.31E.35.31324

Eddy County, New Mexico
 Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83
 Land-surface elevation 3,630 feet above NAVD88
 The depth of the well is 300 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1971-04-05			D 62610		3367.36	NGVD29	1		Z	
1971-04-05			D 62611		3368.92	NAVD88	1		Z	
1971-04-05			D 72019	261.08			1		Z	
1976-05-27			D 62610		3367.91	NGVD29	1		Z	
1976-05-27			D 62611		3369.47	NAVD88	1		Z	
1976-05-27			D 72019	260.53			1		Z	
1983-04-11			D 62610		3367.94	NGVD29	1		Z	
1983-04-11			D 62611		3369.50	NAVD88	1		Z	
1983-04-11			D 72019	260.50			1		Z	
1987-01-26			D 62610		3367.44	NGVD29	1		S	
1987-01-26			D 62611		3369.00	NAVD88	1		S	
1987-01-26			D 72019	261.00			1		S	
1994-03-17			D 62610		3367.77	NGVD29	1		S	
1994-03-17			D 62611		3369.33	NAVD88	1		S	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1994-03-17			D	72019	260.67		1		S	

Explanation

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

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

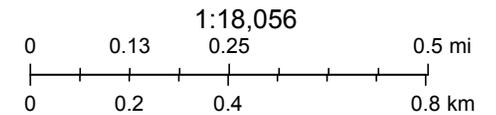
Page Last Modified: 2023-06-19 09:27:52 EDT

0.34 0.3 nadww02

New Mexico NFHL Data



June 19, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/27/2023 9:53:55 AM

JOB DESCRIPTION

Firefox 4 Federal Com 005H (06.08.23)
 SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-29945-1

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
6/27/2023 9:53:55 AM

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

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Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Laboratory Job ID: 880-29945-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
SDG: Eddy County, New Mexico

Job ID: 880-29945-1

Laboratory: Eurofins Midland**Narrative****Job Narrative
880-29945-1****Receipt**

The samples were received on 6/23/2023 11:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.5') (880-29945-1), S-1 (1') (880-29945-2) and S-1 (1.5') (880-29945-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (1.5') (880-29945-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-56149/51). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56149 recovered above the upper control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-56149/51).

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-29951-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56226 and analytical batch 880-56309 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.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-56309 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window therefore the data was qualified and reported. The associated sample is impacted: (CCV 880-56309/31).

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

HPLC/IC

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



Client Sample Results

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29945-1

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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		06/23/23 12:05	06/24/23 02:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 02:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 02:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/23/23 12:05	06/24/23 02:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/23/23 12:05	06/24/23 02:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/23/23 12:05	06/24/23 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	06/23/23 12:05	06/24/23 02:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/23/23 12:05	06/24/23 02:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/26/23 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.8		49.9		mg/Kg			06/27/23 10:35	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	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 00:26	1
Diesel Range Organics (Over C10-C28)	55.8		49.9		mg/Kg		06/23/23 15:55	06/27/23 00:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 00:26	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	92		70 - 130	06/23/23 15:55	06/27/23 00:26	1			
o-Terphenyl	95		70 - 130	06/23/23 15:55	06/27/23 00:26	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18200		252		mg/Kg			06/23/23 19:11	50

Client Sample ID: S-1 (1')

Lab Sample ID: 880-29945-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0502	U	0.0502		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
Toluene	<0.0502	U	0.0502		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
Ethylbenzene	<0.0502	U	0.0502		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
m-Xylene & p-Xylene	<0.100	U	0.100		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
o-Xylene	<0.0502	U	0.0502		mg/Kg		06/23/23 12:05	06/24/23 02:50	25
Xylenes, Total	<0.100	U	0.100		mg/Kg		06/23/23 12:05	06/24/23 02:50	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	06/23/23 12:05	06/24/23 02:50	25
1,4-Difluorobenzene (Surr)	97		70 - 130	06/23/23 12:05	06/24/23 02:50	25

Eurofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1')

Lab Sample ID: 880-29945-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.100	U	0.100		mg/Kg			06/26/23 08:48	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			06/27/23 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 00:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 00:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/23/23 15:55	06/27/23 00:47	1
o-Terphenyl	97		70 - 130	06/23/23 15:55	06/27/23 00:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14200		99.6		mg/Kg			06/23/23 19:16	20

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-29945-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U	0.0498		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
Toluene	<0.0498	U	0.0498		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
Ethylbenzene	<0.0498	U	0.0498		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
m-Xylene & p-Xylene	<0.0996	U	0.0996		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
o-Xylene	<0.0498	U	0.0498		mg/Kg		06/23/23 12:05	06/24/23 03:11	25
Xylenes, Total	<0.0996	U	0.0996		mg/Kg		06/23/23 12:05	06/24/23 03:11	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	06/23/23 12:05	06/24/23 03:11	25
1,4-Difluorobenzene (Surr)	98		70 - 130	06/23/23 12:05	06/24/23 03:11	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0996	U	0.0996		mg/Kg			06/26/23 08:48	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			06/27/23 10:35	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	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-29945-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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		06/23/23 15:55	06/27/23 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				06/23/23 15:55	06/27/23 01:09	1
o-Terphenyl	101		70 - 130				06/23/23 15:55	06/27/23 01:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14500		99.2		mg/Kg			06/23/23 19:22	20

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

Surrogate Summary

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-29945-1	S-1 (0-0.5')	138 S1+	91
880-29945-2	S-1 (1')	136 S1+	97
880-29945-3	S-1 (1.5')	148 S1+	98
880-29949-A-1-F MS	Matrix Spike	114	88
880-29949-A-1-G MSD	Matrix Spike Duplicate	123	85
LCS 880-56204/1-A	Lab Control Sample	111	103
LCS 880-56204/2-A	Lab Control Sample Dup	106	92
MB 880-56108/5-B	Method Blank	116	77
MB 880-56204/5-A	Method Blank	104	86

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-29945-1	S-1 (0-0.5')	92	95
880-29945-2	S-1 (1')	94	97
880-29945-3	S-1 (1.5')	98	101
880-29951-A-1-D MS	Matrix Spike	103	96
LCS 880-56226/2-A	Lab Control Sample	96	97
LCS 880-56226/3-A	Lab Control Sample Dup	92	90
MB 880-56226/1-A	Method Blank	109	117

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
880-29951-A-1-E MSD	Matrix Spike Duplicate		

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56108/5-B
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 56108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	06/23/23 10:33	06/23/23 11:44	1
1,4-Difluorobenzene (Surr)	77		70 - 130	06/23/23 10:33	06/23/23 11:44	1

Lab Sample ID: MB 880-56204/5-A
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/23/23 12:05	06/23/23 23:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/23/23 12:05	06/23/23 23:41	1

Lab Sample ID: LCS 880-56204/1-A
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09204		mg/Kg		92	70 - 130
Toluene	0.100	0.1063		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-56204/2-A
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09646		mg/Kg		96	70 - 130	5	35

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QC Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-56204/2-A
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1099		mg/Kg		110	70 - 130	3	35
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-29949-A-1-F MS
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09342		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.100	0.1148		mg/Kg		115	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1085		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2279		mg/Kg		114	70 - 130
o-Xylene	<0.00200	U	0.100	0.1102		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-29949-A-1-G MSD
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.08654		mg/Kg		87	70 - 130	8	35
Toluene	<0.00200	U	0.0994	0.1141		mg/Kg		115	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.1131		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.2445		mg/Kg		123	70 - 130	7	35
o-Xylene	<0.00200	U	0.0994	0.1183		mg/Kg		119	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

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

Lab Sample ID: MB 880-56226/1-A
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 56226

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		06/23/23 15:55	06/26/23 23:01	1

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QC Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-56226/1-A
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1-Chlorooctane	109		70 - 130	06/23/23 15:55	06/26/23 23:01	1			
o-Terphenyl	117		70 - 130	06/23/23 15:55	06/26/23 23:01	1			

Lab Sample ID: LCS 880-56226/2-A
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics (Over C10-C28)	1000	980.0		mg/Kg		98	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	96		70 - 130				
o-Terphenyl	97		70 - 130				

Lab Sample ID: LCSD 880-56226/3-A
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	979.1		mg/Kg		98	70 - 130	0	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	92		70 - 130						
o-Terphenyl	90		70 - 130						

Lab Sample ID: 880-29951-A-1-D MS
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1274		mg/Kg		127	70 - 130
Diesel Range Organics (Over C10-C28)	496	F1	1000	1124	F1	mg/Kg		63	70 - 130
Surrogate	MS	MS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	103		70 - 130						
o-Terphenyl	96		70 - 130						

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QC Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29951-A-1-E MSD
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 56226

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	998	991.1		mg/Kg					
Diesel Range Organics (Over C10-C28)	496	F1	998	1065		mg/Kg					
Surrogate	%Recovery	MSD Qualifier	MSD	Limits							
1-Chlorooctane											
o-Terphenyl											

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56168/1-A
 Matrix: Solid
 Analysis Batch: 56220

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			06/23/23 17:49	1

Lab Sample ID: LCS 880-56168/2-A
 Matrix: Solid
 Analysis Batch: 56220

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-56168/3-A
 Matrix: Solid
 Analysis Batch: 56220

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	248.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-29929-A-1-E MS
 Matrix: Solid
 Analysis Batch: 56220

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	85.3		252	347.9		mg/Kg		104	90 - 110

Lab Sample ID: 880-29929-A-1-F MSD
 Matrix: Solid
 Analysis Batch: 56220

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	85.3		252	345.3		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 56108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56108/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	8021B	56204
880-29945-2	S-1 (1')	Total/NA	Solid	8021B	56204
880-29945-3	S-1 (1.5')	Total/NA	Solid	8021B	56204
MB 880-56108/5-B	Method Blank	Total/NA	Solid	8021B	56108
MB 880-56204/5-A	Method Blank	Total/NA	Solid	8021B	56204
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	8021B	56204
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56204
880-29949-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	56204
880-29949-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56204

Prep Batch: 56204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-29945-2	S-1 (1')	Total/NA	Solid	5035	
880-29945-3	S-1 (1.5')	Total/NA	Solid	5035	
MB 880-56204/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29949-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-29949-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29945-2	S-1 (1')	Total/NA	Solid	Total BTEX	
880-29945-3	S-1 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 56226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29945-2	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-29945-3	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-56226/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56226/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56226/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29951-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29951-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	56226
880-29945-2	S-1 (1')	Total/NA	Solid	8015B NM	56226
880-29945-3	S-1 (1.5')	Total/NA	Solid	8015B NM	56226
MB 880-56226/1-A	Method Blank	Total/NA	Solid	8015B NM	56226
LCS 880-56226/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56226

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QC Association Summary

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 56309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-56226/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56226
880-29951-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	56226
880-29951-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56226

Analysis Batch: 56403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-29945-2	S-1 (1')	Total/NA	Solid	8015 NM	
880-29945-3	S-1 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-29945-2	S-1 (1')	Soluble	Solid	DI Leach	
880-29945-3	S-1 (1.5')	Soluble	Solid	DI Leach	
MB 880-56168/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56168/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56168/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29929-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-29929-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 56220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29945-1	S-1 (0-0.5')	Soluble	Solid	300.0	56168
880-29945-2	S-1 (1')	Soluble	Solid	300.0	56168
880-29945-3	S-1 (1.5')	Soluble	Solid	300.0	56168
MB 880-56168/1-A	Method Blank	Soluble	Solid	300.0	56168
LCS 880-56168/2-A	Lab Control Sample	Soluble	Solid	300.0	56168
LCSD 880-56168/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56168
880-29929-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	56168
880-29929-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	56168

Lab Chronicle

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29945-1

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 02:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56274	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56403	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 00:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		50			56220	06/23/23 19:11	CH	EET MID

Client Sample ID: S-1 (1')

Lab Sample ID: 880-29945-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	56149	06/24/23 02:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56274	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56403	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 00:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		20			56220	06/23/23 19:16	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-29945-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	56149	06/24/23 03:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56274	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56403	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 01:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		20			56220	06/23/23 19:22	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: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

- 1
- 2
- 3
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- 12
- 13
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Method Summary

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
SDG: Eddy County, New Mexico

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29945-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29945-1	S-1 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01
880-29945-2	S-1 (1')	Solid	06/22/23 00:00	06/23/23 11:01
880-29945-3	S-1 (1.5')	Solid	06/22/23 00:00	06/23/23 11:01

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Work Order No: 209145

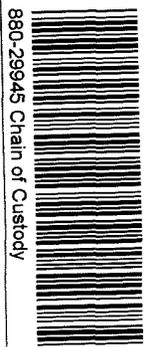
Page 1 of 1

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> P RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Iperfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name	Project Number	Project Location	Turn Around	Pres. Code	ANALYSIS REQUEST			Preservative Codes
					Due Date	72 Hrs	Parameters	
Firefox 4 Federal Com 005H (06 08 23)	2062	Eddy County, New Mexico	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush					None NO DI Water H ₂ O Cool Cool MeOH Me HCL, HC HNO ₃ HN H ₂ SO ₄ H ₂ NaOH Na H ₃ PO ₄ HP NaHSO ₄ NABIS Na ₂ SO ₄ NaSO ₃ Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC
Sampler's Name		GP/JJR						
PO #								
SAMPLE RECEIPT	Temp Blank	Yes (No)	Wet Ice	Yes (No)				
Received In tact:	Yes (No)	Thermometer ID						
Cooler Custody Seals	Yes (No)	Correction Factor						
Sample Custody Seals	Yes (No)	Temperature Reading						
Total Containers	Yes (No)	Corrected Temperature						
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont		
S-1 (0-0.5')	6/22/2023		X		G	1	X	X
S-1 (1')	6/22/2023		X		G	1	X	X
S-1 (1.5')	6/22/2023		X		G	1	X	X

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



Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>[Signature]</i>	6-23-23 101	<i>[Signature]</i>	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-29945-1
SDG Number: Eddy County, New Mexico

Login Number: 29945

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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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 6/27/2023 9:54:02 AM

JOB DESCRIPTION

Firefox 4 Federal Com 005H (06.08.23)
 SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-29949-1

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
6/27/2023 9:54:02 AM

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

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Laboratory Job ID: 880-29949-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
SDG: Eddy County, New Mexico

Job ID: 880-29949-1

Laboratory: Eurofins Midland**Narrative****Job Narrative
880-29949-1****Receipt**

The samples were received on 6/23/2023 11:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-29949-1), H-2 (0-0.5') (880-29949-2), H-3 (0-0.5') (880-29949-3) and H-4 (0-0.5') (880-29949-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-56149/51). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56149 recovered above the upper control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-56149/51).

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-29951-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56226 and analytical batch 880-56309 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.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-56309 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window therefore the data was qualified and reported. The associated sample is impacted: (CCV 880-56309/31).

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

HPLC/IC

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



Client Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-1

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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		06/23/23 12:05	06/24/23 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 00:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 00:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/23/23 12:05	06/24/23 00:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/23/23 12:05	06/24/23 00:03	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			06/26/23 08:48	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			06/27/23 10:35	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	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 15:55	06/27/23 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	06/23/23 15:55	06/27/23 01:30	1
o-Terphenyl	95		70 - 130	06/23/23 15:55	06/27/23 01:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7		5.02		mg/Kg			06/23/23 19:28	1

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

Lab Sample ID: 880-29949-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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		06/23/23 12:05	06/24/23 00:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 00:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 00:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/23/23 12:05	06/24/23 00:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/23/23 12:05	06/24/23 00:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/23/23 12:05	06/24/23 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/23/23 12:05	06/24/23 00:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/23/23 12:05	06/24/23 00:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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			06/26/23 08:48	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			06/27/23 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 01:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 01:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 15:55	06/27/23 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	06/23/23 15:55	06/27/23 01:51	1
o-Terphenyl	89		70 - 130	06/23/23 15:55	06/27/23 01:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.4		5.04		mg/Kg			06/23/23 19:46	1

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

Lab Sample ID: 880-29949-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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		06/23/23 12:05	06/24/23 00:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/23/23 12:05	06/24/23 00:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/23/23 12:05	06/24/23 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/23/23 12:05	06/24/23 00:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/23/23 12:05	06/24/23 00:45	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			06/26/23 08:48	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			06/27/23 10:35	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	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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		06/23/23 15:55	06/27/23 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				06/23/23 15:55	06/27/23 02:12	1
o-Terphenyl	92		70 - 130				06/23/23 15:55	06/27/23 02:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.4		4.98		mg/Kg			06/23/23 19:51	1

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

Lab Sample ID: 880-29949-4

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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		06/23/23 12:05	06/24/23 01:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/24/23 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				06/23/23 12:05	06/24/23 01:06	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/23/23 12:05	06/24/23 01:06	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			06/26/23 08:48	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			06/27/23 10:35	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	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/27/23 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/23/23 15:55	06/27/23 02:33	1
o-Terphenyl	91		70 - 130				06/23/23 15:55	06/27/23 02:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.00		mg/Kg			06/23/23 20:09	1

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Surrogate Summary

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-29949-1	H-1 (0-0.5')	115	94
880-29949-1 MS	H-1 (0-0.5')	114	88
880-29949-1 MSD	H-1 (0-0.5')	123	85
880-29949-2	H-2 (0-0.5')	113	100
880-29949-3	H-3 (0-0.5')	106	94
880-29949-4	H-4 (0-0.5')	113	95
LCS 880-56204/1-A	Lab Control Sample	111	103
LCSD 880-56204/2-A	Lab Control Sample Dup	106	92
MB 880-56108/5-B	Method Blank	116	77
MB 880-56204/5-A	Method Blank	104	86

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-29949-1	H-1 (0-0.5')	96	95
880-29949-2	H-2 (0-0.5')	89	89
880-29949-3	H-3 (0-0.5')	99	92
880-29949-4	H-4 (0-0.5')	94	91
880-29951-A-1-D MS	Matrix Spike	103	96
LCS 880-56226/2-A	Lab Control Sample	96	97
LCSD 880-56226/3-A	Lab Control Sample Dup	92	90
MB 880-56226/1-A	Method Blank	109	117

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
880-29951-A-1-E MSD	Matrix Spike Duplicate		

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56108/5-B
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 56108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 10:33	06/23/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 10:33	06/23/23 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	06/23/23 10:33	06/23/23 11:44	1
1,4-Difluorobenzene (Surr)	77		70 - 130	06/23/23 10:33	06/23/23 11:44	1

Lab Sample ID: MB 880-56204/5-A
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 12:05	06/23/23 23:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 12:05	06/23/23 23:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/23/23 12:05	06/23/23 23:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/23/23 12:05	06/23/23 23:41	1

Lab Sample ID: LCS 880-56204/1-A
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09204		mg/Kg		92	70 - 130
Toluene	0.100	0.1063		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-56204/2-A
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09646		mg/Kg		96	70 - 130	5	35

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QC Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-56204/2-A
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.1099		mg/Kg		110	70 - 130	3	35	
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130	1	35	
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	1	35	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-29949-1 MS
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: H-1 (0-0.5')
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00200	U	0.100	0.09342		mg/Kg		93	70 - 130	
Toluene	<0.00200	U	0.100	0.1148		mg/Kg		115	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.1085		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2279		mg/Kg		114	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1102		mg/Kg		109	70 - 130	

Surrogate	MS %Recovery	MS Qualifier	Limits
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-29949-1 MSD
 Matrix: Solid
 Analysis Batch: 56149

Client Sample ID: H-1 (0-0.5')
 Prep Type: Total/NA
 Prep Batch: 56204

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00200	U	0.0994	0.08654		mg/Kg		87	70 - 130	8	35	
Toluene	<0.00200	U	0.0994	0.1141		mg/Kg		115	70 - 130	1	35	
Ethylbenzene	<0.00200	U	0.0994	0.1131		mg/Kg		114	70 - 130	4	35	
m-Xylene & p-Xylene	<0.00400	U	0.199	0.2445		mg/Kg		123	70 - 130	7	35	
o-Xylene	<0.00200	U	0.0994	0.1183		mg/Kg		119	70 - 130	7	35	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	85		70 - 130

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

Lab Sample ID: MB 880-56226/1-A
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1

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QC Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-56226/1-A
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 15:55	06/26/23 23:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	109		70 - 130	06/23/23 15:55	06/26/23 23:01	1
o-Terphenyl	117		70 - 130	06/23/23 15:55	06/26/23 23:01	1

Lab Sample ID: LCS 880-56226/2-A
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	876.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.0		mg/Kg		98	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	96		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-56226/3-A
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	887.0		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	979.1		mg/Kg		98	70 - 130	0	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	92		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-29951-A-1-D MS
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 56226

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1274		mg/Kg		127	70 - 130
Diesel Range Organics (Over C10-C28)	496	F1	1000	1124	F1	mg/Kg		63	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	103		70 - 130
o-Terphenyl	96		70 - 130

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QC Sample Results

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29951-A-1-E MSD
 Matrix: Solid
 Analysis Batch: 56309

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 56226

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	998	991.1		mg/Kg					
Diesel Range Organics (Over C10-C28)	496	F1	998	1065		mg/Kg					
Surrogate	%Recovery	MSD Qualifier	MSD	Limits							
1-Chlorooctane											
o-Terphenyl											

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56168/1-A
 Matrix: Solid
 Analysis Batch: 56220

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			06/23/23 17:49	1

Lab Sample ID: LCS 880-56168/2-A
 Matrix: Solid
 Analysis Batch: 56220

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-56168/3-A
 Matrix: Solid
 Analysis Batch: 56220

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	248.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-29949-1 MS
 Matrix: Solid
 Analysis Batch: 56220

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	45.7		251	298.7		mg/Kg		101	90 - 110

Lab Sample ID: 880-29949-1 MSD
 Matrix: Solid
 Analysis Batch: 56220

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	45.7		251	297.2		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 56108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56108/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	8021B	56204
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	8021B	56204
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	8021B	56204
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	8021B	56204
MB 880-56108/5-B	Method Blank	Total/NA	Solid	8021B	56108
MB 880-56204/5-A	Method Blank	Total/NA	Solid	8021B	56204
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	8021B	56204
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56204
880-29949-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	56204
880-29949-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	56204

Prep Batch: 56204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-56204/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56204/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56204/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29949-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-29949-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 56272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 56226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-56226/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56226/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56226/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29951-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29951-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	56226

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QC Association Summary

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 56309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	56226
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	56226
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	56226
MB 880-56226/1-A	Method Blank	Total/NA	Solid	8015B NM	56226
LCS 880-56226/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56226
LCSD 880-56226/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56226
880-29951-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	56226
880-29951-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56226

Analysis Batch: 56404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-29949-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-29949-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-29949-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-29949-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-29949-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-29949-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-56168/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56168/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56168/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29949-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-29949-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 56220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29949-1	H-1 (0-0.5')	Soluble	Solid	300.0	56168
880-29949-2	H-2 (0-0.5')	Soluble	Solid	300.0	56168
880-29949-3	H-3 (0-0.5')	Soluble	Solid	300.0	56168
880-29949-4	H-4 (0-0.5')	Soluble	Solid	300.0	56168
MB 880-56168/1-A	Method Blank	Soluble	Solid	300.0	56168
LCS 880-56168/2-A	Lab Control Sample	Soluble	Solid	300.0	56168
LCSD 880-56168/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56168
880-29949-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	56168
880-29949-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	56168

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-1

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 00:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56272	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56404	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 01:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			56220	06/23/23 19:28	CH	EET MID

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

Lab Sample ID: 880-29949-2

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 00:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56272	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56404	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 01:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			56220	06/23/23 19:46	CH	EET MID

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

Lab Sample ID: 880-29949-3

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 00:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56272	06/26/23 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			56404	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 02:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			56220	06/23/23 19:51	CH	EET MID

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

Lab Sample ID: 880-29949-4

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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	56204	06/23/23 12:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56149	06/24/23 01:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56272	06/26/23 08:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
 Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29949-4

Date Collected: 06/22/23 00:00

Matrix: Solid

Date Received: 06/23/23 11:01

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			56404	06/27/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56226	06/23/23 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56309	06/27/23 02:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56168	06/23/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			56220	06/23/23 20:09	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
SDG: Eddy County, New Mexico

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Carmona Resources
Project/Site: Firefox 4 Federal Com 005H (06.08.23)

Job ID: 880-29949-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29949-1	H-1 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01
880-29949-2	H-2 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01
880-29949-3	H-3 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01
880-29949-4	H-4 (0-0.5')	Solid	06/22/23 00:00	06/23/23 11:01

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Work Order No: 29949

Page 1 of 1

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-613-6823	Email	mcarmona@carmonaresources.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	State of Project:
Reporting Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other <input type="checkbox"/>

Project Name	Project Number	Project Location	Turn Around	Pre. Code	ANALYSIS REQUEST			Preservative Codes
					BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	
Firefox 4 Federal Com 005H (06 08 23)	2062	Eddy County, New Mexico	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush				None NO Cool Cool HCL HC H ₂ SO ₄ H ₂ H ₃ PO ₄ HP NAHSO ₄ NABIS Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC	
Sampler's Name	GPJJR		Due Date	72 Hrs				
PO #:								
SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No				
Received Intact:	Yes No	Thermometer ID						
Cooler Custody Seals	Yes No	Correction Factor						
Sample Custody Seals	Yes No	Temperature Reading						
Total Containers		Corrected Temperature						
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	
H-1 (0-0.5')	6/22/2023		X		G	1	X X X	
H-2 (0-0.5')	6/22/2023		X		G	1	X X X	
H-3 (0-0.5')	6/22/2023		X		G	1	X X X	
H-4 (0-0.5')	6/22/2023		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
<i>[Signature]</i>	6-23-23	<i>[Signature]</i>	1101

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-29949-1
SDG Number: Eddy County, New Mexico

Login Number: 29949

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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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 24, 2023

CONNER MOEHRING
CARMONA RESOURCES
310 W WALL ST SUITE 415
MIDLAND, TX 79701

RE: FIREFOX 4 FEDERAL COM 005H (06.08.23)

Enclosed are the results of analyses for samples received by the laboratory on 08/22/23 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 1 (6') (H234580-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 2 (3.5') (H234580-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 3 (3.5') (H234580-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 4 (3.5') (H234580-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 5 (3.5') (H234580-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 6 (3.5') (H234580-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 7 (3.5') (H234580-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
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 310 W WALL ST SUITE 415
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 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: CS - 8 (3.5') (H234580-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 1 (2.5') (H234580-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	179	89.7	200	5.47	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	181	90.3	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 2 (2.5') (H234580-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 64.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 3 (2.5') (H234580-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 4 (2.5') (H234580-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 5 (3.5') (H234580-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992		
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474		
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987		
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38		
Total BTEX	<0.300	0.300	08/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60		
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84		
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND						

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 6 (3.5') (H234580-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 7 (3.5') (H234580-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 8 (3.5') (H234580-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 9 (3.5') (H234580-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 10 (3.5') (H234580-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 11 (3.5') (H234580-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 12 (3.5') (H234580-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2023	ND	2.06	103	2.00	0.992	
Toluene*	<0.050	0.050	08/23/2023	ND	2.11	106	2.00	0.474	
Ethylbenzene*	<0.050	0.050	08/23/2023	ND	2.07	103	2.00	0.987	
Total Xylenes*	<0.150	0.150	08/23/2023	ND	6.23	104	6.00	1.38	
Total BTEX	<0.300	0.300	08/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	08/22/2023	Sampling Date:	08/22/2023
Reported:	08/24/2023	Sampling Type:	Soil
Project Name:	FIREFOX 4 FEDERAL COM 005H (06.08.2	Sampling Condition:	Cool & Intact
Project Number:	2062	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SW - 13 (3.5') (H234580-21)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	1.91	95.3	2.00	3.49	
Toluene*	<0.050	0.050	08/24/2023	ND	1.89	94.5	2.00	2.69	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	1.96	98.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	5.81	96.8	6.00	0.698	
Total BTEX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/23/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	164	82.0	200	3.60	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	152	75.9	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

CONDITIONS

Action 274132

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 274132
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2316649435 FIREFOX 4 FEDERAL COM 005H, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/20/2024