

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Cottonmouth 13 Federal Com 001H (01.23.23)
Incident #NAPP2303730067
Eddy County, New Mexico
Unit O Sec 13 T26S R28E
32.03801°, -104.04143°

Produced Water Release
Point of Release: Loosened Clamp on Polyline
Release Date: 01.23.2023
Volume Released: 0.47 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

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

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May 31, 2023

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

**Re: Closure Report
Cottonmouth 13 Federal Com 001H (01.23.23)
Concho Operating, LLC
Site Location: Unit O, S13, T26S, R28E
(Lat 32.03801°, Long -104.04143°)
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 Cottonmouth 13 Federal Com 001H (01.23.23). The site is located at 32.03801°, -104.04143° within Unit O, S13, T26S, R28E, and 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 January 23, 2023, caused by a loosened clamp on a polyline. It released approximately zero point four seven (0.47) barrels of produced water, and zero (0) barrels of produced water were 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 medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.99 miles Northwest of the site in S12, T26S, R28E and was drilled in 1976. The well has a reported depth to groundwater of 100' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria 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

On March 6, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical and horizontal extent, two (2) sample points (S-1 through S-2) and four (4) horizontal points (H-1 through H-4) were advanced to depths ranging from the surface to 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.

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 March 22, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 4.5' below the surface, and the area of S-2 was excavated to a depth of 3.5' below the surface to remove all the impacted soils. A total of six (6) floor confirmation samples were collected (CS-1 through CS-6), and ten (10) sidewall samples (SW-1 through SW-10) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride except for CS-1, which showed elevated chloride at 619 mg/kg. The area of CS-1 was excavated an additional 0.5' bgs to remove the contaminated soil, and the sample was recollected.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 120 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

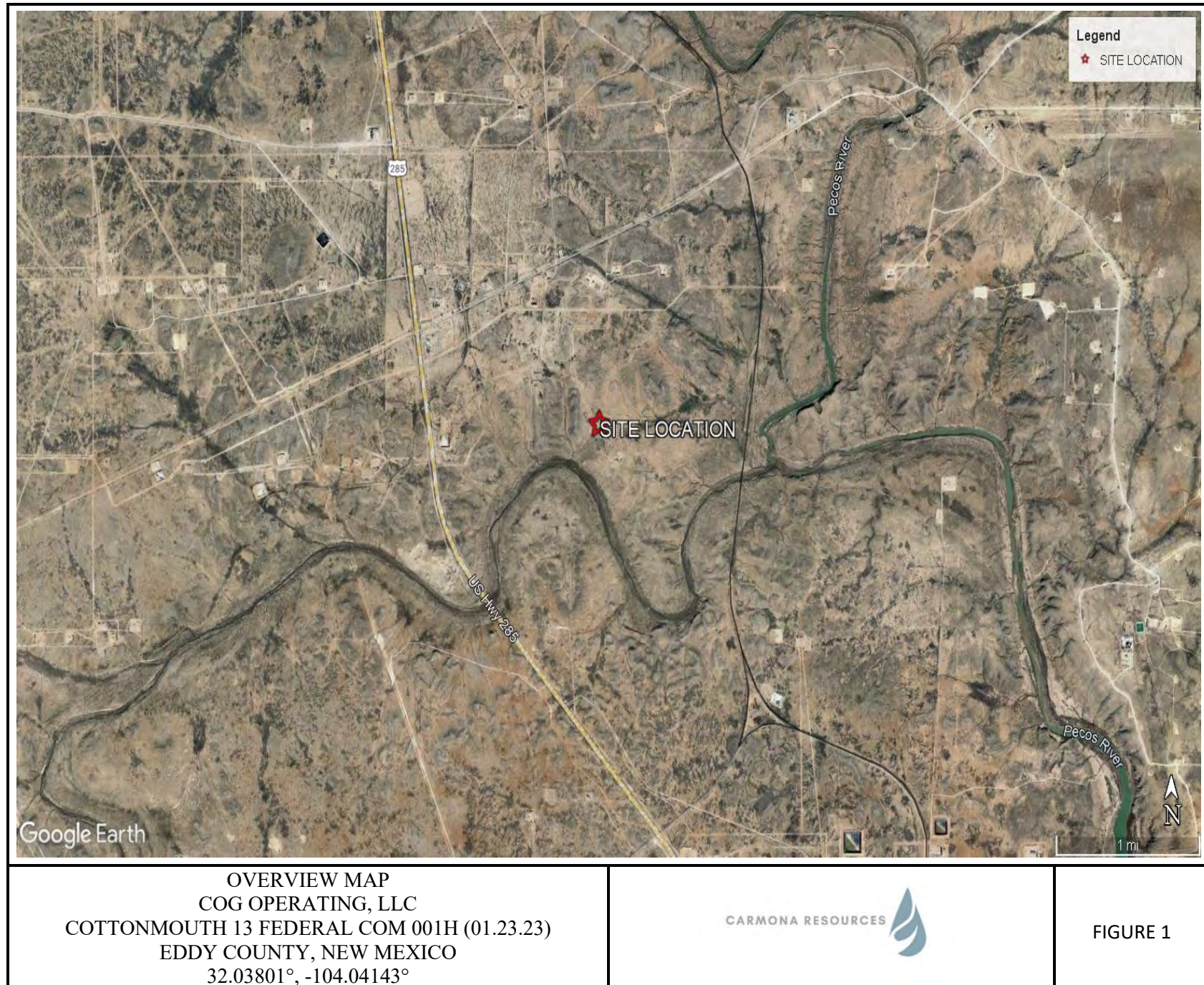
Mike Carmona
Environmental Manager

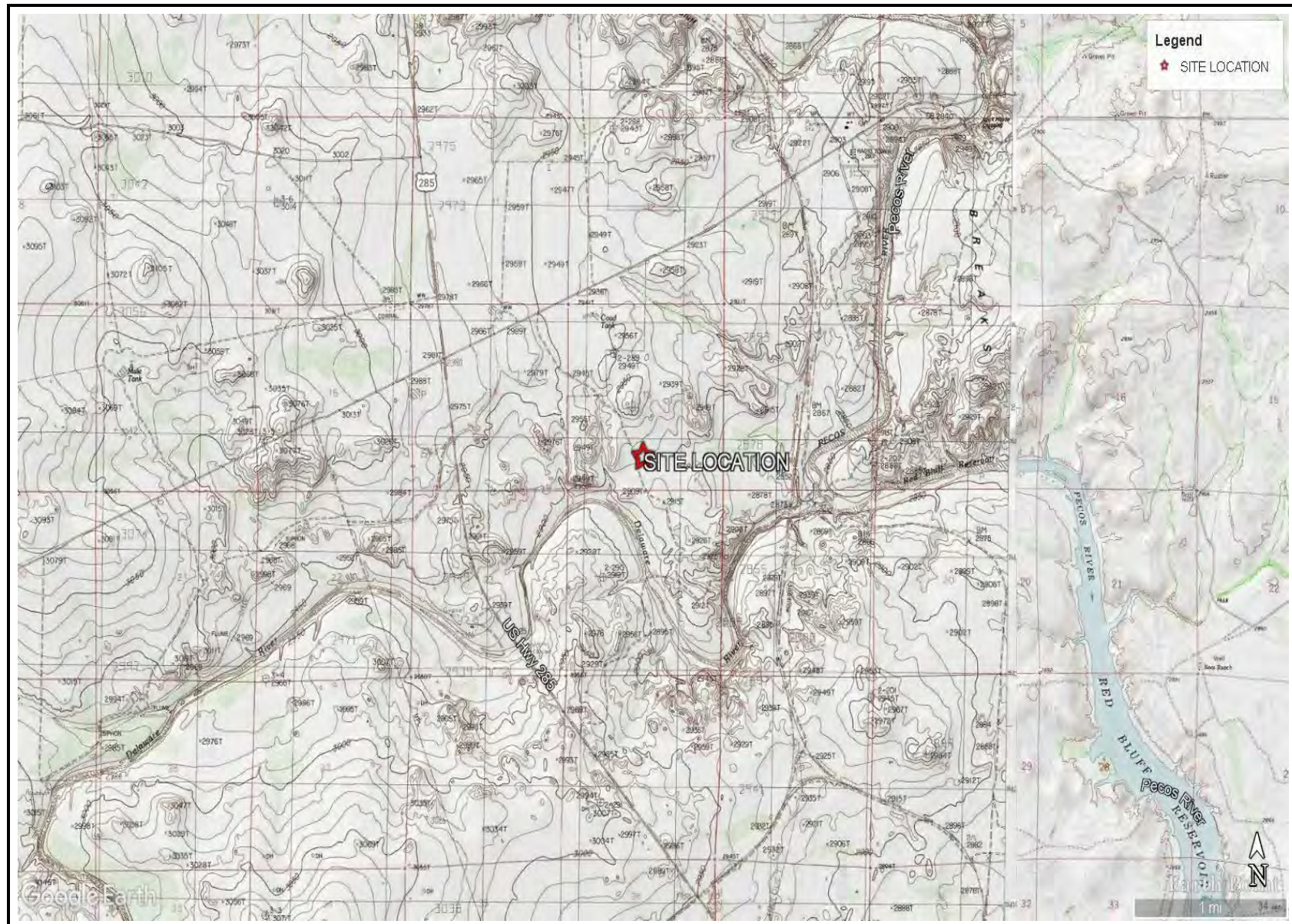
Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



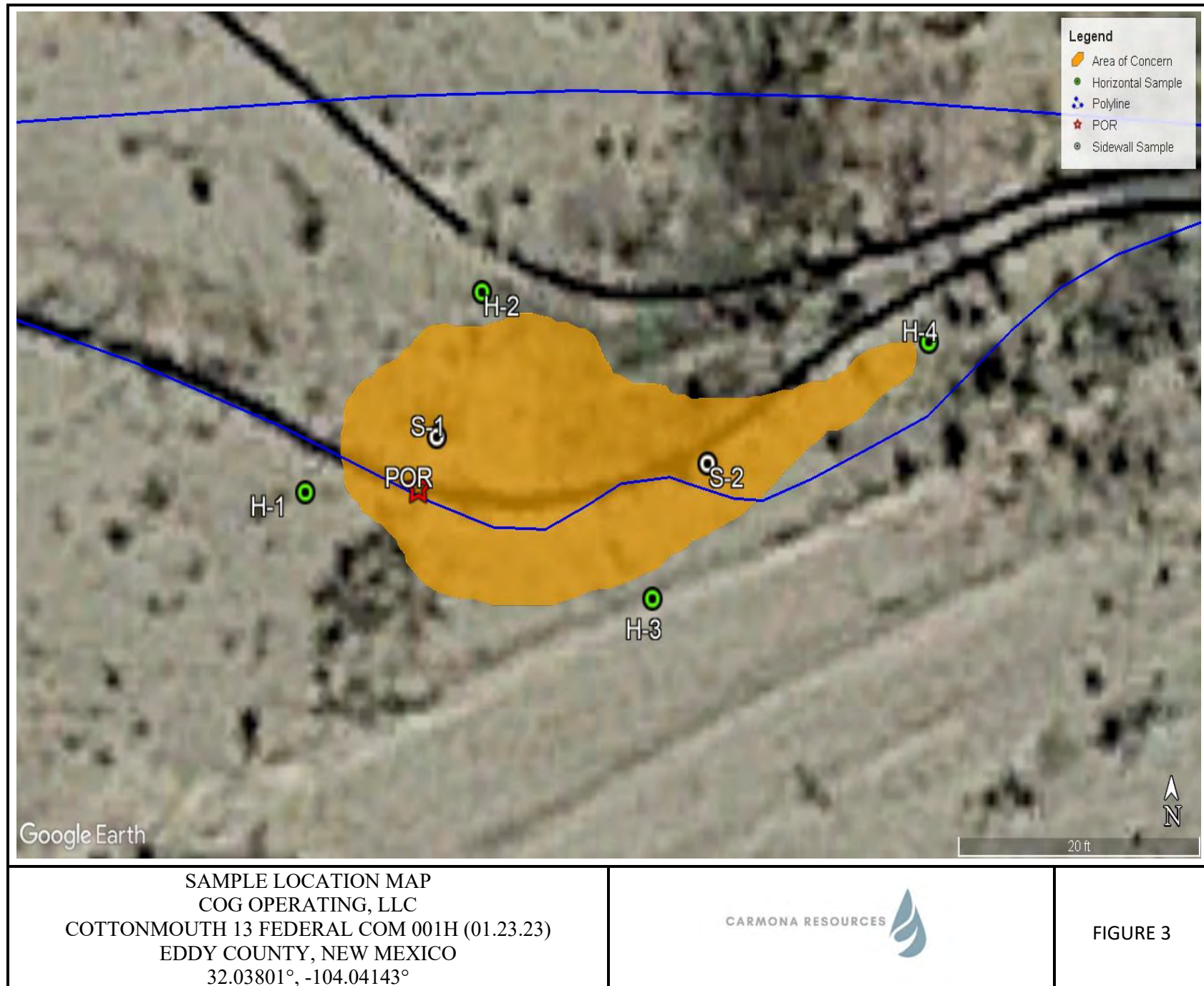


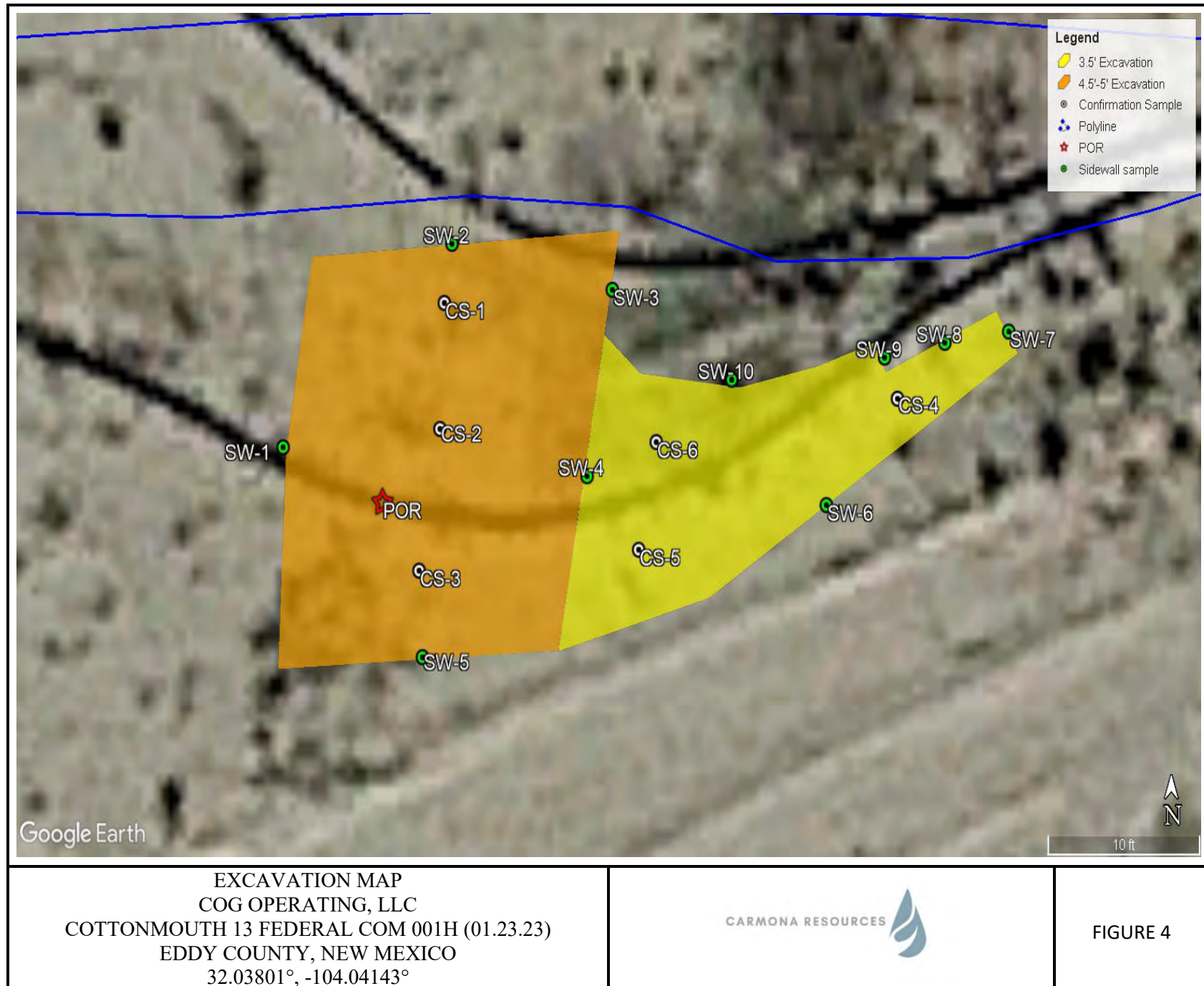


TOPOGRAPHIC MAP
 COG OPERATING, LLC
 COTTONMOUTH 13 FEDERAL COM 001H (01.23.23)
 EDDY COUNTY, NEW MEXICO
 32.03801°, -104.04143°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
Conoco Phillips
Cottonmouth 13 Federal Com 001H (01.23.23)
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	3/6/2023	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	9,610
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12,400
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	11,900
	"	3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11,200
	"	4	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11,900
	"	5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<250
S-2	3/6/2023	0-1	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	11,500
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	11,900
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	12,600
	"	3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,510
	"	4	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	350
	"	5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	482
H-1	3/6/2023	0-0.25	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	276
H-2	3/6/2023	0-0.25	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	187
H-3	3/6/2023	0-0.25	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	35.8
H-4	3/6/2023	0-0.25	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	188
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) - Sample Point

(H) - Horizontal Sample

Removed

Table 2
Conoco Phillips
Cottonmouth 13 Federal Com 001H (01.23.23)
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	3/28/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	619
	4/7/2023	5.0	<50.0	<50.1	<50.2	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	118
CS-2	3/28/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	168
CS-3	3/28/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	69.4
CS-4	3/28/2023	3.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	372
CS-5	3/28/2023	3.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	501
CS-6	3/28/2023	3.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	469
SW-1	3/28/2023	4.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	115
SW-2	3/28/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	97.3
SW-3	3/28/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	93.9
SW-4	3/28/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	95.0
SW-5	3/28/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	150
SW-6	3/28/2023	3.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	102
SW-7	3/28/2023	3.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	102
SW-8	3/28/2023	3.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	105
SW-9	3/28/2023	3.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	94.5
SW-10	3/28/2023	3.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	214
Regulatory Criteria ^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) - Confirmation Sample

(SW) - Sidewall Sample

 Removed

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Cottonmouth 13 Federal Com
001H (01.23.23)

County: Eddy County, New Mexico

Description:

View North, area of CS-1 through CS-3.



Photograph No. 2

Facility: Cottonmouth 13 Federal Com
001H (01.23.23)

County: Eddy County, New Mexico

Description:

View South, area of CS-1 through CS-3, and CS-5.



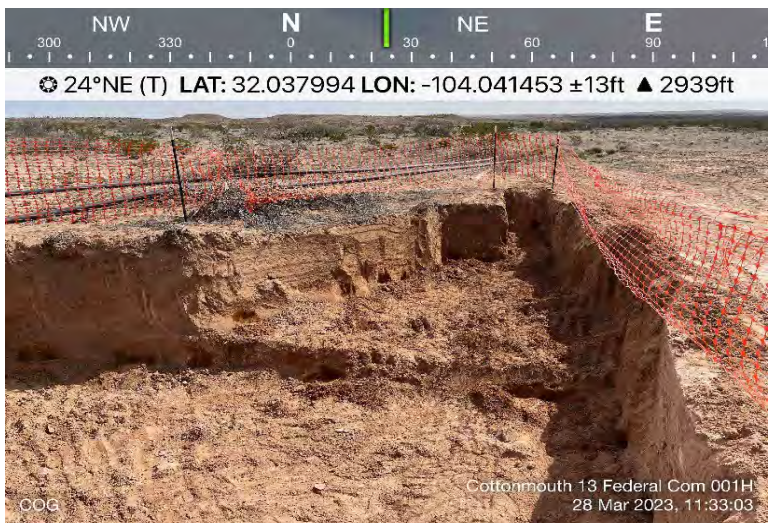
Photograph No. 3

Facility: Cottonmouth 13 Federal Com
001H (01.23.23)

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-4 through CS-6.



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)

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☐ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health and the environment.	
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u></u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>02/06/2023</u>

L48 Spill Volume Estimate Form						
Facility Name & Number:		COTTONMOUTH 13 FEDERAL COM #1H				
Asset Area:		DBW				
Release Discovery Date & Time:		1.23.23				
Release Type:		Produced Water				
Provide any known details about the event:		PIPE REPAIR CLAMP LOOSENEED, LEAKING PRODUCED WATER				
Spill Calculation - Subsurface Spill - Rectangle						
Was the release on pad or off-pad?		See reference table below				
Has it rained at least a half inch in the last 24 hours?		See reference table below				
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	33.0	11.0	0.50	13.63%	2.692	0.367
Rectangle B	17.0	6.0	0.50	13.63%	0.757	0.103
Rectangle C					0.000	0.000
Rectangle D					0.000	0.000
Rectangle E					0.000	0.000
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
Total Volume Release:						0.470

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 182862

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 182862
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	2/6/2023

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?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ 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?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ 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: Jacqueline Harimon Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 06/15/2023

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: Jacques Harimon Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 06/15/2023

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: Shelly Wells Date: 11/3/2023

Printed Name: Shelly Wells Title: Environmental Specialist-Advanced

From: Enviro, OCD, EMNRD
Sent: Thursday, March 23, 2023 9:43 AM
To: Mike Carmona
Cc: Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] COG Cottonmouth 13 Federal Com 001H (1.23.23) Sampling Notification

Mike,

Thank you for the notification. Is there an incident # that correlates with this sampling event?
Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Mike Carmona <Mcarmona@carmonaresources.com>
Sent: Wednesday, March 22, 2023 12:47 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Conner Moehring <Cmoehring@carmonaresources.com>; Harris, Jacqui <Jacqui.Harris@conocophillips.com>; Clint Merritt <MerrittC@carmonaresources.com>
Subject: [EXTERNAL] COG Cottonmouth 13 Federal Com 001H (1.23.23) Sampling Notification

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

Good Afternoon,

On behalf of COG, Carmona Resources will collect confirmation samples for the below site on 03/28/23 around 10:00 a.m. Please let me know if you have any questions.

COG Cottonmouth 13 Federal Com 001H (1.23.23)
32.038208 -104.041380
Sec 13 T26S R28E Unit N
Eddy County, New Mexico

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



APPENDIX D

CARMONA RESOURCES

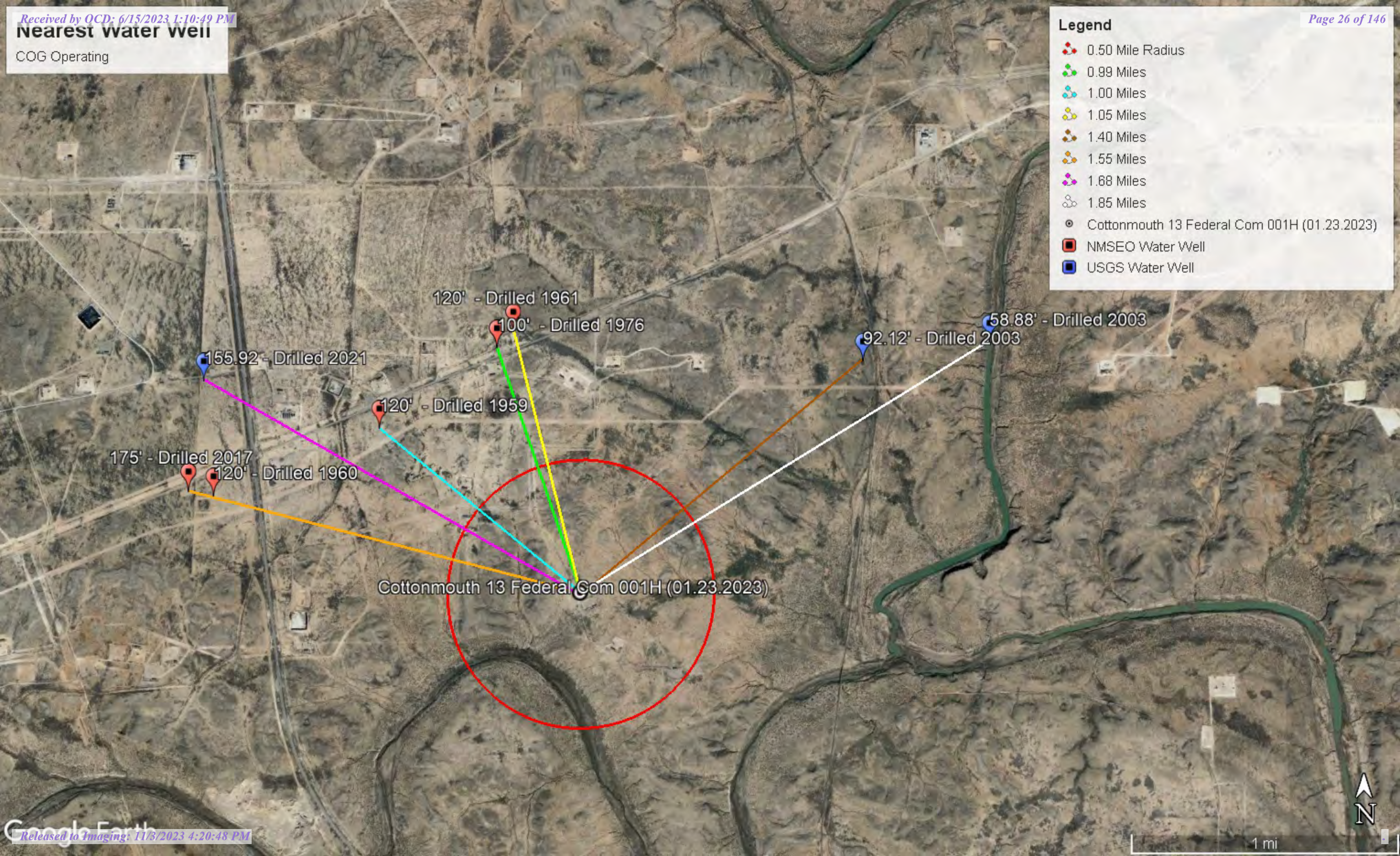


Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 0.99 Miles
- 1.00 Miles
- 1.05 Miles
- 1.40 Miles
- 1.55 Miles
- 1.68 Miles
- 1.85 Miles
- Cottonmouth 13 Federal Com 001H (01.23.2023)
- NMSEO Water Well
- USGS Water Well



Medium Karst

COG Operating

Legend

- Cottonmouth 13 Federal Com 001H (01.23.2023)
- High
- Medium

Cottonmouth 13 Federal Com 001H (01.23.2023)



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01668	CUB	ED		3	3	12	26S	28E		589957	3546554*	1599	250	100	150
C 02160	CUB	ED		4	1	2	14	26S	28E	589243	3546044*	1606	300	120	180
C 02160 S8	CUB	ED		2	3	3	12	26S	28E	590056	3546653*	1663	200	120	80
C 02160 S	CUB	ED		1	1	2	14	26S	28E	589043	3546244*	1887	300	120	180
C 02160 S2	CUB	ED		1	1	2	14	26S	28E	589043	3546244*	1887	300	120	180
C 02894	C	ED		2	2	3	12	26S	28E	590458	3547061*	2010	240		
C 02160 S3	CUB	ED		2	2	1	14	26S	28E	588834	3546241*	2052	300	120	180
C 02160 S4	CUB	ED		2	2	1	14	26S	28E	588834	3546241*	2052	300	120	180
C 02160 S6	CUB	ED		3	3	1	14	26S	28E	588232	3545635*	2348	300	120	180
C 02481	CUB	ED		1	1	14	26S	28E		588326	3546138*	2436	200		
C 04022 POD1	CUB	ED		4	4	2	15	26S	28E	588082	3545647	2496	220	175	45
C 02160 S5	CUB	ED		1	1	1	14	26S	28E	588225	3546237*	2571	300	120	180
C 02924	C	ED		1	3	2	11	26S	28E	589032	3547451*	2816			
C 02479	CUB	ED		4	4	10	26S	28E		587909	3546534*	2990	200		
C 02480	CUB	ED		4	4	10	26S	28E		587909	3546534*	2990	150		
C 04022 POD2	CUB	ED		2	2	2	27	26S	28E	588106	3543082	3104	250	145	105

Average Depth to Water: **125 feet**

Minimum Depth: **100 feet**

Maximum Depth: **175 feet**

Record Count: 16

UTMNAD83 Radius Search (in meters):

Easting (X): 590506.35

Northing (Y): 3545051.36

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.

12/9/22 5:58 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01668		3	3	12	26S	28E	589957	3546554*

Driller License:	224	Driller Company:	MULLIN, R.J.
Driller Name:			
Drill Start Date:	03/22/1976	Drill Finish Date:	04/02/1976
Log File Date:	04/08/1976	PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	16.00	Depth Well:	250 feet
		Depth Water:	100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	115	135	Limestone/Dolomite/Chalk
	135	147	Limestone/Dolomite/Chalk
	185	196	Limestone/Dolomite/Chalk
	236	238	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	0	115
	115	135
	135	147
	147	196
	196	212
	212	234
	234	241
	241	250

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)						X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng		
C	02160	4	1	2	14	26S	28E	589243	3546044*

Driller License:		Driller Company:							
Driller Name:		HEMLER							
Drill Start Date:		Drill Finish Date:				Plug Date:			
		12/01/1959							
Log File Date:		PCW Rev Date:				Source:			
						Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
JOHNSO									
Casing Size:		Depth Well:				Depth Water:			
		300 feet				120 feet			

*UTM location was derived from PLSS - see Help

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12/9/22 6:01 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02160 S8	2	3	3	12	26S	28E	590056	3546653*

Driller License:		Driller Company:			
Driller Name:	HEMLER				
Drill Start Date:		Drill Finish Date:	03/01/1961	Plug Date:	
Log File Date:		PCW Rev Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:		Depth Well:	200 feet	Depth Water:	120 feet

*UTM location was derived from PLSS - see Help

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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320303104012301

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

USGS 320303104012301 26S.28E.14.21412

Eddy County, New Mexico
Latitude 32°03'03.0", Longitude 104°01'23.0" NAD27
Land-surface elevation 2,972.40 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) 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
1978-01-13			D 62610		2855.65	NGVD29	1	Z		
1978-01-13			D 62611		2857.19	NAVD88	1	Z		
1978-01-13			D 72019	116.75			1	Z		
1983-01-25			D 62610		2858.75	NGVD29	1	Z		
1983-01-25			D 62611		2860.29	NAVD88	1	Z		
1983-01-25			D 72019	113.65			1	Z		
1987-10-14			D 62610		2873.68	NGVD29	1	Z		
1987-10-14			D 62611		2875.22	NAVD88	1	Z		
1987-10-14			D 72019	98.72			1	Z		
1993-05-04			D 62610		2880.80	NGVD29	1	S		
1993-05-04			D 62611		2882.34	NAVD88	1	S		
1993-05-04			D 72019	91.60			1	S		
1998-01-22			D 62610		2882.55	NGVD29	1	S		
1998-01-22			D 62611		2884.09	NAVD88	1	S		
1998-01-22			D 72019	89.85			1	S		
2003-01-27			D 62610		2880.28	NGVD29	1	S	USGS	

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
2003-01-27			D	62611	2881.82	NAVD88	1	S	USGS	
2003-01-27			D	72019	92.12		1	S	USGS	

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
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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



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Page Last Modified: 2022-12-09 08:12:49 EST

0.29 0.25 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	04022 POD1	4	4	2	15	26S	28E	588082	3545647 
Driller License:	1184	Driller Company:				WEST TEXAS WATER WELL SERVICE			
Driller Name:	KEITH, RONNY								
Drill Start Date:	05/01/2017	Drill Finish Date:				05/05/2017		Plug Date:	
Log File Date:	06/05/2017	PCW Rev Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	1 GPM
Casing Size:	12.25	Depth Well:				220 feet		Depth Water:	175 feet
Water Bearing Stratifications:					Top	Bottom	Description		
					175	180	Sandstone/Gravel/Conglomerate		
Casing Perforations:					Top	Bottom			
					160	220			

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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	? S
				Groundwater	New Mexico	GO	

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320309104020401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320309104020401 26S.28E.14.11111

Eddy County, New Mexico

Latitude 32°02'59.0", Longitude 104°03'58.7" NAD83

Land-surface elevation 2,972.00 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) 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 measur
1978-01-13		D	62610		2849.66	NGVD29	1		Z	
1978-01-13		D	62611		2851.23	NAVD88	1		Z	
1978-01-13		D	72019	122.34			1		Z	
1983-01-25		D	62610		2844.62	NGVD29	1		Z	
1983-01-25		D	62611		2846.19	NAVD88	1		Z	
1983-01-25		D	72019	127.38			1		Z	
1987-10-14		D	62610		2865.60	NGVD29	1		Z	
1987-10-14		D	62611		2867.17	NAVD88	1		Z	
1987-10-14		D	72019	106.40			1		Z	
1993-01-05		D	62610		2871.58	NGVD29	1		S	
1993-01-05		D	62611		2873.15	NAVD88	1		S	
1993-01-05		D	72019	100.42			1		S	
1998-01-22		D	62610		2875.45	NGVD29	1		S	
1998-01-22		D	62611		2877.02	NAVD88	1		S	
1998-01-22		D	72019	96.55			1		S	
2003-01-27		D	62610		2874.98	NGVD29	1		S	USGS

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
2003-01-27	D	62611	2876.55	NAVD88	1	S	USGS
2003-01-27	D	72019	97.02		1	S	USGS
2013-01-09 20:30 UTC	m	62610	2832.88	NGVD29	1	S	USGS
2013-01-09 20:30 UTC	m	62611	2834.45	NAVD88	1	S	USGS
2013-01-09 20:30 UTC	m	72019	139.12		1	S	USGS
2021-02-24 20:05 UTC	m	62610	2816.08	NGVD29	1	V	USGS
2021-02-24 20:05 UTC	m	62611	2817.65	NAVD88	1	V	USGS
2021-02-24 20:05 UTC	m	72019	155.92		1	V	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Page Last Modified: 2022-12-09 08:14:06 EST

0.3 0.25 nadww01

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
				Groundwater	New Mexico	GO	

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320307104005301

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

USGS 320307104005301 26S.28E.13.11214

Eddy County, New Mexico
Latitude 32°03'07", Longitude 104°00'53" NAD27
Land-surface elevation 2,858 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) 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
1948-12-15		D	62610		2796.46	NGVD29	1		Z	
1948-12-15		D	62611		2798.00	NAVD88	1		Z	
1948-12-15		D	72019	60.00			1		Z	
1975-12-09		D	62610		2796.97	NGVD29	1		Z	
1975-12-09		D	62611		2798.51	NAVD88	1		Z	
1975-12-09		D	72019	59.49			1		Z	
1976-01-20		D	62610		2797.89	NGVD29	1		Z	
1976-01-20		D	62611		2799.43	NAVD88	1		Z	
1976-01-20		D	72019	58.57			1		Z	
1977-01-13		D	62610		2802.13	NGVD29	1		Z	
1977-01-13		D	62611		2803.67	NAVD88	1		Z	
1977-01-13		D	72019	54.33			1		Z	
1978-02-23		D	62610		2799.71	NGVD29	1		Z	
1978-02-23		D	62611		2801.25	NAVD88	1		Z	
1978-02-23		D	72019	56.75			1		Z	
1983-01-26		D	62610		2803.36	NGVD29	1		Z	

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	
1983-01-26	D	62611	2804.90	NAVD88	1	Z	
1983-01-26	D	72019	53.10		1	Z	
1987-10-14	D	62610	2801.32	NGVD29	1	Z	
1987-10-14	D	62611	2802.86	NAVD88	1	Z	
1987-10-14	D	72019	55.14		1	Z	
1988-03-22	D	62610	2798.73	NGVD29	1	Z	
1988-03-22	D	62611	2800.27	NAVD88	1	Z	
1988-03-22	D	72019	57.73		1	Z	
1993-01-05	D	62610	2796.63	NGVD29	1	S	
1993-01-05	D	62611	2798.17	NAVD88	1	S	
1993-01-05	D	72019	59.83		1	S	
1998-01-22	D	62610	2803.01	NGVD29	1	S	
1998-01-22	D	62611	2804.55	NAVD88	1	S	
1998-01-22	D	72019	53.45		1	S	
2003-01-27	D	62610	2797.58	NGVD29	1	S	USGS
2003-01-27	D	62611	2799.12	NAVD88	1	S	USGS
2003-01-27	D	72019	58.88		1	S	USGS

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
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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



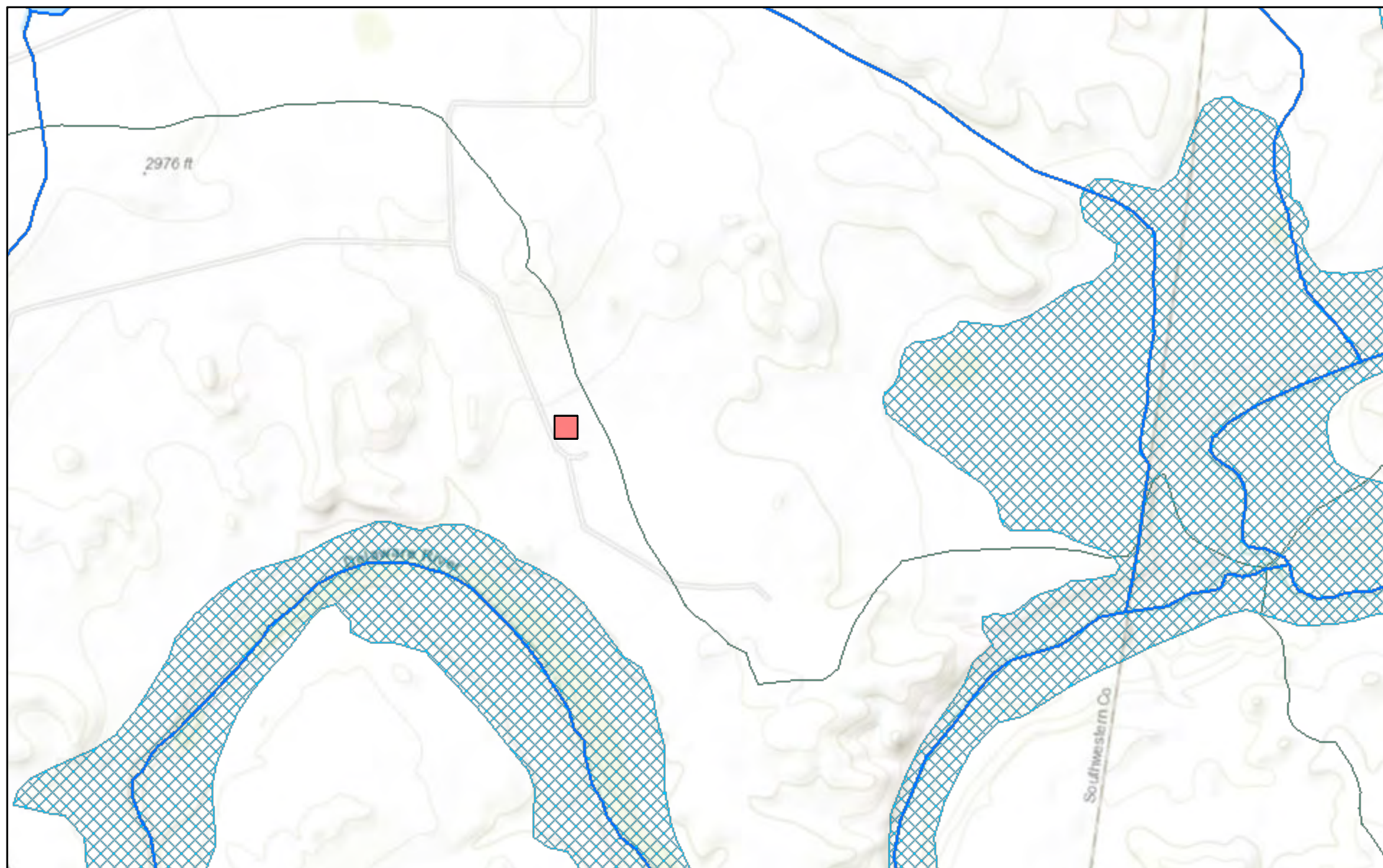
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-12-09 08:05:31 EST

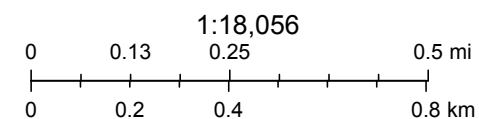
0.28 0.24 nadww02

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	? S
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New Mexico NFHL Data



December 9, 2022



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

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 3/19/2023 4:38:14 PM

JOB DESCRIPTION

Cottonmouth 13 Fed Com 001H (1.23.23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-25740-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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
3/19/2023 4:38:14 PM

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

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Laboratory Job ID: 880-25740-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

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
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Job ID: 880-25740-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25740-1

Receipt

The samples were received on 3/9/2023 3:31 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-25740-1), S-1 (1.5') (880-25740-2), S-1 (2') (880-25740-3), S-1 (3') (880-25740-4), S-1 (4') (880-25740-5), S-1 (5') (880-25740-6), S-2 (0-1') (880-25740-7), S-2 (1.5') (880-25740-8), S-2 (2') (880-25740-9), S-2 (3') (880-25740-10), S-2 (4') (880-25740-11), S-2 (5') (880-25740-12), H-1 (0-0.25') (880-25740-13), H-2 (0-0.25') (880-25740-14), H-3 (0-0.25') (880-25740-15) and H-4 (0-0.25') (880-25740-16).

GC VOA

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: The surrogate recovery for the blank associated with preparation batch 880-48343 and analytical batch 880-48388 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-1 (3') (880-25740-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-48343 and analytical batch 880-48388 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-48345 and analytical batch 880-48410 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-48345 and analytical batch 880-48410 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48300 and analytical batch 880-48577 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: S-2 (3') (880-25740-10), S-2 (4') (880-25740-11), S-2 (5') (880-25740-12), H-1 (0-0.25') (880-25740-13), H-2 (0-0.25') (880-25740-14), H-3 (0-0.25') (880-25740-15), H-4 (0-0.25') (880-25740-16), (880-25740-A-10-B MS) and (880-25740-A-10-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48299 and analytical batch 880-48576 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (880-25739-A-2-A), (880-25739-A-2-B MS) and (880-25739-A-2-C MSD).

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

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-25740-1

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 18:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 18:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 18:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/10/23 12:38	03/16/23 18:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 18:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 12:38	03/16/23 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/10/23 12:38	03/16/23 18:06	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/10/23 12:38	03/16/23 18:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/11/23 23:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/11/23 23:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/11/23 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/10/23 15:45	03/11/23 23:02	1
o-Terphenyl	104		70 - 130	03/10/23 15:45	03/11/23 23:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9610		50.0		mg/Kg			03/15/23 03:02	10

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-25740-2

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 18:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 18:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 18:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/10/23 12:38	03/16/23 18:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 18:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 12:38	03/16/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/10/23 12:38	03/16/23 18:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/10/23 12:38	03/16/23 18:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-25740-2

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/11/23 23:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/11/23 23:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/11/23 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/10/23 15:45	03/11/23 23:24	1
o-Terphenyl	116		70 - 130				03/10/23 15:45	03/11/23 23:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12400		99.2		mg/Kg			03/15/23 03:07	20

Client Sample ID: S-1 (2')

Lab Sample ID: 880-25740-3

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 12:38	03/16/23 18:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/10/23 12:38	03/16/23 18:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/10/23 12:38	03/16/23 18:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/10/23 12:38	03/16/23 18:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/10/23 12:38	03/16/23 18:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/10/23 12:38	03/16/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/10/23 12:38	03/16/23 18:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/10/23 12:38	03/16/23 18:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/11/23 23:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/11/23 23:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-25740-3

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 15:45	03/11/23 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/10/23 15:45	03/11/23 23:46	1
o-Terphenyl	114		70 - 130				03/10/23 15:45	03/11/23 23:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11900		100		mg/Kg			03/15/23 03:21	20

Client Sample ID: S-1 (3')

Lab Sample ID: 880-25740-4

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 12:38	03/16/23 19:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 19:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 19:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/10/23 12:38	03/16/23 19:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 19:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/10/23 12:38	03/16/23 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				03/10/23 12:38	03/16/23 19:07	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/10/23 12:38	03/16/23 19:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 00:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 00:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				03/10/23 15:45	03/12/23 00:07	1
o-Terphenyl	138	S1+	70 - 130				03/10/23 15:45	03/12/23 00:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11200		101		mg/Kg			03/15/23 03:26	20

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (4')

Lab Sample ID: 880-25740-5

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 12:38	03/16/23 19:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:38	03/16/23 19:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:38	03/16/23 19:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/10/23 12:38	03/16/23 19:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:38	03/16/23 19:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/10/23 12:38	03/16/23 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/10/23 12:38	03/16/23 19:27	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/10/23 12:38	03/16/23 19:27	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			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 00:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 00:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/10/23 15:45	03/12/23 00:29	1
o-Terphenyl	112		70 - 130	03/10/23 15:45	03/12/23 00:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11900		99.4		mg/Kg			03/15/23 03:31	20

Client Sample ID: S-1 (5')

Lab Sample ID: 880-25740-6

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 12:38	03/16/23 19:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 19:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 19:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/10/23 12:38	03/16/23 19:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 19:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/10/23 12:38	03/16/23 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/10/23 12:38	03/16/23 19:48	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/10/23 12:38	03/16/23 19:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (5')

Lab Sample ID: 880-25740-6

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 00:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 00:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/10/23 15:45	03/12/23 00:51	1
o-Terphenyl	102		70 - 130				03/10/23 15:45	03/12/23 00:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<250	U	250		mg/Kg			03/15/23 03:36	50

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

Lab Sample ID: 880-25740-7

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 12:38	03/16/23 20:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/10/23 12:38	03/16/23 20:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/10/23 12:38	03/16/23 20:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/10/23 12:38	03/16/23 20:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/10/23 12:38	03/16/23 20:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/10/23 12:38	03/16/23 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/10/23 12:38	03/16/23 20:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/10/23 12:38	03/16/23 20:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 01:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-25740-7

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 15:45	03/12/23 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/10/23 15:45	03/12/23 01:13	1
o-Terphenyl	110		70 - 130				03/10/23 15:45	03/12/23 01:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11500		99.6		mg/Kg			03/15/23 03:41	20

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-25740-8

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 20:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 20:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 20:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/10/23 12:38	03/16/23 20:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:38	03/16/23 20:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 12:38	03/16/23 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/10/23 12:38	03/16/23 20:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/10/23 12:38	03/16/23 20:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 01:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 01:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 01:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/10/23 15:45	03/12/23 01:34	1
o-Terphenyl	110		70 - 130				03/10/23 15:45	03/12/23 01:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11900		99.8		mg/Kg			03/15/23 03:46	20

Eurofins Midland

Client Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: S-2 (2')

Lab Sample ID: 880-25740-9

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 12:38	03/16/23 20:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 20:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 20:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/10/23 12:38	03/16/23 20:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 20:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/10/23 12:38	03/16/23 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/10/23 12:38	03/16/23 20:49	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/10/23 12:38	03/16/23 20:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 01:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 01:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/10/23 15:45	03/12/23 01:56	1
o-Terphenyl	107		70 - 130	03/10/23 15:45	03/12/23 01:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12600		100		mg/Kg			03/15/23 03:50	20

Client Sample ID: S-2 (3')

Lab Sample ID: 880-25740-10

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 12:38	03/16/23 21:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:38	03/16/23 21:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:38	03/16/23 21:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/10/23 12:38	03/16/23 21:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:38	03/16/23 21:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/10/23 12:38	03/16/23 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/10/23 12:38	03/16/23 21:09	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/10/23 12:38	03/16/23 21:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3')

Lab Sample ID: 880-25740-10

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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			03/17/23 10:34	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 03:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 03:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/10/23 15:45	03/12/23 03:39	1
o-Terphenyl	108		70 - 130				03/10/23 15:45	03/12/23 03:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4510	F1	25.1		mg/Kg			03/15/23 04:29	5

Client Sample ID: S-2 (4')

Lab Sample ID: 880-25740-11

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/14/23 14:47	03/19/23 04:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/14/23 14:47	03/19/23 04:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/14/23 14:47	03/19/23 04:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/14/23 14:47	03/19/23 04:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/14/23 14:47	03/19/23 04:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/14/23 14:47	03/19/23 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/14/23 14:47	03/19/23 04:20	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/14/23 14:47	03/19/23 04:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/19/23 16:17	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 04:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 04:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (4')

Lab Sample ID: 880-25740-11

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 15:45	03/12/23 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/10/23 15:45	03/12/23 04:00	1
o-Terphenyl	108		70 - 130				03/10/23 15:45	03/12/23 04:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		4.98		mg/Kg			03/15/23 04:44	1

Client Sample ID: S-2 (5')

Lab Sample ID: 880-25740-12

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/14/23 14:47	03/19/23 06:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 06:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 06:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/14/23 14:47	03/19/23 06:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 06:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/14/23 14:47	03/19/23 06:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/14/23 14:47	03/19/23 06:10	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/14/23 14:47	03/19/23 06:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/19/23 16:17	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			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 04:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 04:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/12/23 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/10/23 15:45	03/12/23 04:21	1
o-Terphenyl	108		70 - 130				03/10/23 15:45	03/12/23 04:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	482		5.00		mg/Kg			03/15/23 04:48	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.25')

Lab Sample ID: 880-25740-13

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/14/23 14:47	03/19/23 06:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/14/23 14:47	03/19/23 06:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/14/23 14:47	03/19/23 06:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/14/23 14:47	03/19/23 06:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/14/23 14:47	03/19/23 06:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/14/23 14:47	03/19/23 06:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/14/23 14:47	03/19/23 06:30	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/14/23 14:47	03/19/23 06:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/19/23 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/13/23 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 04:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 04:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/23 15:45	03/12/23 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/10/23 15:45	03/12/23 04:43	1
o-Terphenyl	104		70 - 130	03/10/23 15:45	03/12/23 04:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		4.99		mg/Kg			03/15/23 04:53	1

Client Sample ID: H-2 (0-0.25')

Lab Sample ID: 880-25740-14

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/14/23 14:47	03/19/23 06:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/14/23 14:47	03/19/23 06:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/14/23 14:47	03/19/23 06:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/14/23 14:47	03/19/23 06:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/14/23 14:47	03/19/23 06:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/14/23 14:47	03/19/23 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/14/23 14:47	03/19/23 06:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/14/23 14:47	03/19/23 06:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: H-2 (0-0.25')

Lab Sample ID: 880-25740-14

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/19/23 16:17	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			03/13/23 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0		mg/Kg		03/10/23 15:48	03/12/23 19:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/23 15:48	03/12/23 19:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/23 15:48	03/12/23 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/10/23 15:48	03/12/23 19:18	1
o-Terphenyl	78		70 - 130				03/10/23 15:48	03/12/23 19:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		5.00		mg/Kg			03/15/23 04:58	1

Client Sample ID: H-3 (0-0.25')

Lab Sample ID: 880-25740-15

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/14/23 14:47	03/19/23 07:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 07:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 07:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/14/23 14:47	03/19/23 07:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 07:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/14/23 14:47	03/19/23 07:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/14/23 14:47	03/19/23 07:11	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/14/23 14:47	03/19/23 07:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/19/23 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/13/23 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		03/10/23 15:48	03/12/23 19:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:48	03/12/23 19:41	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: H-3 (0-0.25')

Lab Sample ID: 880-25740-15

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/10/23 15:48	03/12/23 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/10/23 15:48	03/12/23 19:41	1
o-Terphenyl	92		70 - 130				03/10/23 15:48	03/12/23 19:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8		5.02		mg/Kg			03/15/23 05:13	1

Client Sample ID: H-4 (0-0.25')

Lab Sample ID: 880-25740-16

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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		03/14/23 14:47	03/19/23 07:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/14/23 14:47	03/19/23 07:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/14/23 14:47	03/19/23 07:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/14/23 14:47	03/19/23 07:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/14/23 14:47	03/19/23 07:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/14/23 14:47	03/19/23 07:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/14/23 14:47	03/19/23 07:32	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/14/23 14:47	03/19/23 07:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/19/23 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/13/23 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		03/10/23 15:48	03/12/23 20:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/23 15:48	03/12/23 20:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/23 15:48	03/12/23 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				03/10/23 15:48	03/12/23 20:03	1
o-Terphenyl	76		70 - 130				03/10/23 15:48	03/12/23 20:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		4.98		mg/Kg			03/15/23 05:18	1

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-25738-A-1-I MS	Matrix Spike	107	98				
880-25738-A-1-J MSD	Matrix Spike Duplicate	109	99				
880-25739-A-1-B MS	Matrix Spike	105	103				
880-25739-A-1-C MSD	Matrix Spike Duplicate	104	98				
880-25740-1	S-1 (0-1')	96	89				
880-25740-2	S-1 (1.5')	106	92				
880-25740-3	S-1 (2')	105	91				
880-25740-4	S-1 (3')	88	85				
880-25740-5	S-1 (4')	103	92				
880-25740-6	S-1 (5')	102	88				
880-25740-7	S-2 (0-1')	99	94				
880-25740-8	S-2 (1.5')	99	88				
880-25740-9	S-2 (2')	96	89				
880-25740-10	S-2 (3')	90	89				
880-25740-11	S-2 (4')	100	89				
880-25740-12	S-2 (5')	105	85				
880-25740-13	H-1 (0-0.25')	85	85				
880-25740-14	H-2 (0-0.25')	104	87				
880-25740-15	H-3 (0-0.25')	101	85				
880-25740-16	H-4 (0-0.25')	105	92				
LCS 880-48321/1-A	Lab Control Sample	109	103				
LCS 880-48617/1-A	Lab Control Sample	113	99				
LCSD 880-48321/2-A	Lab Control Sample Dup	103	100				
LCSD 880-48617/2-A	Lab Control Sample Dup	112	98				
MB 880-48308/5-A	Method Blank	94	87				
MB 880-48321/5-A	Method Blank	94	85				
MB 880-48617/5-A	Method Blank	99	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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-25739-A-12-E MS	Matrix Spike	108	105				
880-25739-A-12-F MSD	Matrix Spike Duplicate	118	112				
880-25740-1	S-1 (0-1')	98	104				
880-25740-2	S-1 (1.5')	105	116				
880-25740-3	S-1 (2')	107	114				
880-25740-4	S-1 (3')	123	138 S1+				
880-25740-5	S-1 (4')	104	112				
880-25740-6	S-1 (5')	94	102				
880-25740-7	S-2 (0-1')	103	110				
880-25740-8	S-2 (1.5')	100	110				
880-25740-9	S-2 (2')	98	107				
880-25740-10	S-2 (3')	99	108				

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-25740-11	S-2 (4')	100	108
880-25740-12	S-2 (5')	101	108
880-25740-13	H-1 (0-0.25')	98	104
880-25740-14	H-2 (0-0.25')	78	78
880-25740-15	H-3 (0-0.25')	95	92
880-25740-16	H-4 (0-0.25')	77	76
880-25768-A-27-C MS	Matrix Spike	105	92
880-25768-A-27-D MSD	Matrix Spike Duplicate	99	88
LCS 880-48343/2-A	Lab Control Sample	107	115
LCS 880-48345/2-A	Lab Control Sample	81	84
LCSD 880-48343/3-A	Lab Control Sample Dup	101	106
LCSD 880-48345/3-A	Lab Control Sample Dup	90	88
MB 880-48343/1-A	Method Blank	144 S1+	163 S1+
MB 880-48345/1-A	Method Blank	121	129
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48308/5-A

Matrix: Solid

Analysis Batch: 48814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/23 11:06	03/18/23 13:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/10/23 11:06	03/18/23 13:13	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/10/23 11:06	03/18/23 13:13	1

Lab Sample ID: MB 880-48321/5-A

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/23 12:38	03/16/23 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:38	03/16/23 12:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/23 12:38	03/16/23 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/10/23 12:38	03/16/23 12:20	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/10/23 12:38	03/16/23 12:20	1

Lab Sample ID: LCS 880-48321/1-A

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1018		mg/Kg		102	70 - 130
Toluene	0.100	0.1011		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09864		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2011		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09910		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-48321/2-A

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09001		mg/Kg		90	70 - 130	12	35

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QC Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-48321/2-A

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09093		mg/Kg		91	70 - 130	11	35
Ethylbenzene	0.100	0.08643		mg/Kg		86	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130	13	35
o-Xylene	0.100	0.08765		mg/Kg		88	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-25739-A-1-B MS

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.09061		mg/Kg		91	70 - 130
Toluene	<0.00199	U	0.0998	0.09173		mg/Kg		92	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.08583		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1745		mg/Kg		87	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08643		mg/Kg		87	70 - 130

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

Lab Sample ID: 880-25739-A-1-C MSD

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08897		mg/Kg		89	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.08977		mg/Kg		89	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.08549		mg/Kg		85	70 - 130	0	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1736		mg/Kg		86	70 - 130	0	35
o-Xylene	<0.00199	U	0.100	0.08603		mg/Kg		86	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-48617/5-A

Matrix: Solid

Analysis Batch: 48814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/14/23 14:47	03/19/23 00:48	1

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QC Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-48617/5-A

Matrix: Solid

Analysis Batch: 48814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/14/23 14:47	03/19/23 00:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/14/23 14:47	03/19/23 00:48	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/14/23 14:47	03/19/23 00:48	1

Lab Sample ID: LCS 880-48617/1-A

Matrix: Solid

Analysis Batch: 48814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09224		mg/Kg		92	70 - 130
Toluene	0.100	0.09912		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09653		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09975		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-48617/2-A

Matrix: Solid

Analysis Batch: 48814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48617

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08472		mg/Kg		85	70 - 130	8	35
Toluene	0.100	0.09759		mg/Kg		98	70 - 130	2	35
Ethylbenzene	0.100	0.09669		mg/Kg		97	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1982		mg/Kg		99	70 - 130	1	35
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-25738-A-1-I MS

Matrix: Solid

Analysis Batch: 48814

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0998	0.07176		mg/Kg		72	70 - 130
Toluene	<0.00202	U	0.0998	0.07264		mg/Kg		73	70 - 130
Ethylbenzene	<0.00202	U	0.0998	0.07011		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1435		mg/Kg		72	70 - 130
o-Xylene	<0.00202	U	0.0998	0.07339		mg/Kg		73	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-25738-A-1-I MS

Matrix: Solid

Analysis Batch: 48814

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48617

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-25738-A-1-J MSD

Matrix: Solid

Analysis Batch: 48814

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08442		mg/Kg		84	70 - 130	16	35
Toluene	<0.00202	U	0.100	0.08503		mg/Kg		85	70 - 130	16	35
Ethylbenzene	<0.00202	U	0.100	0.08223		mg/Kg		82	70 - 130	16	35
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1666		mg/Kg		83	70 - 130	15	35
o-Xylene	<0.00202	U	0.100	0.08626		mg/Kg		85	70 - 130	16	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-48343/1-A

Matrix: Solid

Analysis Batch: 48388

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48343

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		03/10/23 15:45	03/11/23 20:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/11/23 20:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/23 15:45	03/11/23 20:49	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	144	S1+	70 - 130	03/10/23 15:45	03/11/23 20:49	1			
o-Terphenyl	163	S1+	70 - 130	03/10/23 15:45	03/11/23 20:49	1			

Lab Sample ID: LCS 880-48343/2-A

Matrix: Solid

Analysis Batch: 48388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	965.1		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	115		70 - 130

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QC Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-48343/3-A

Matrix: Solid

Analysis Batch: 48388

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48343

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	976.7		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	992.7		mg/Kg		99	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	101		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 880-25739-A-12-E MS

Matrix: Solid

Analysis Batch: 48388

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	992.2		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1013		mg/Kg		99	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	105		70 - 130								

Lab Sample ID: 880-25739-A-12-F MSD

Matrix: Solid

Analysis Batch: 48388

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1169		mg/Kg		113	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1110		mg/Kg		109	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	118		70 - 130								
o-Terphenyl	112		70 - 130								

Lab Sample ID: MB 880-48345/1-A

Matrix: Solid

Analysis Batch: 48410

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48345

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		03/10/23 15:48	03/12/23 09:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/23 15:48	03/12/23 09:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/23 15:48	03/12/23 09:26	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-48345/1-A

Matrix: Solid

Analysis Batch: 48410

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48345

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	03/10/23 15:48	03/12/23 09:26	1
o-Terphenyl	129		70 - 130	03/10/23 15:48	03/12/23 09:26	1

Lab Sample ID: LCS 880-48345/2-A

Matrix: Solid

Analysis Batch: 48410

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48345

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	509.2	*-	mg/Kg		51	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	767.2		mg/Kg		77	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-48345/3-A

Matrix: Solid

Analysis Batch: 48410

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48345

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	485.0	*-	mg/Kg		49	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	798.6		mg/Kg		80	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-25768-A-27-C MS

Matrix: Solid

Analysis Batch: 48410

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48345

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	998	860.1		mg/Kg		84	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	855.6		mg/Kg		86	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	92		70 - 130

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QC Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-25768-A-27-D MSD

Matrix: Solid

Analysis Batch: 48410

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	999	869.8		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	803.4		mg/Kg		80	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	88		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48299/1-A

Matrix: Solid

Analysis Batch: 48576

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			03/15/23 01:25	1

Lab Sample ID: LCS 880-48299/2-A

Matrix: Solid

Analysis Batch: 48576

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	268.3		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-48299/3-A

Matrix: Solid

Analysis Batch: 48576

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	267.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-25739-A-2-B MS

Matrix: Solid

Analysis Batch: 48576

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	8760	F1	2500	14150	F1	mg/Kg		216	90 - 110		

Lab Sample ID: 880-25739-A-2-C MSD

Matrix: Solid

Analysis Batch: 48576

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	8760	F1	2500	14170	F1	mg/Kg		217	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-25739-A-12-B MS

Matrix: Solid

Analysis Batch: 48576

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	262		250	509.1		mg/Kg		99	90 - 110		

Lab Sample ID: 880-25739-A-12-C MSD

Matrix: Solid

Analysis Batch: 48576

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	262		250	509.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-48300/1-A

Matrix: Solid

Analysis Batch: 48577

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			03/15/23 04:15	1

Lab Sample ID: LCS 880-48300/2-A

Matrix: Solid

Analysis Batch: 48577

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	269.6		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-48300/3-A

Matrix: Solid

Analysis Batch: 48577

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	269.4		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-25740-10 MS

Matrix: Solid

Analysis Batch: 48577

Client Sample ID: S-2 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4510	F1	1250	6238	F1	mg/Kg		138	90 - 110		

Lab Sample ID: 880-25740-10 MSD

Matrix: Solid

Analysis Batch: 48577

Client Sample ID: S-2 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4510	F1	1250	6258	F1	mg/Kg		139	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 48308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48308/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 48321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-1	S-1 (0-1')	Total/NA	Solid	5035	
880-25740-2	S-1 (1.5')	Total/NA	Solid	5035	
880-25740-3	S-1 (2')	Total/NA	Solid	5035	
880-25740-4	S-1 (3')	Total/NA	Solid	5035	
880-25740-5	S-1 (4')	Total/NA	Solid	5035	
880-25740-6	S-1 (5')	Total/NA	Solid	5035	
880-25740-7	S-2 (0-1')	Total/NA	Solid	5035	
880-25740-8	S-2 (1.5')	Total/NA	Solid	5035	
880-25740-9	S-2 (2')	Total/NA	Solid	5035	
880-25740-10	S-2 (3')	Total/NA	Solid	5035	
MB 880-48321/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48321/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48321/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25739-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-25739-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 48617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-11	S-2 (4')	Total/NA	Solid	5035	
880-25740-12	S-2 (5')	Total/NA	Solid	5035	
880-25740-13	H-1 (0-0.25')	Total/NA	Solid	5035	
880-25740-14	H-2 (0-0.25')	Total/NA	Solid	5035	
880-25740-15	H-3 (0-0.25')	Total/NA	Solid	5035	
880-25740-16	H-4 (0-0.25')	Total/NA	Solid	5035	
MB 880-48617/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48617/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48617/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25738-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
880-25738-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 48708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-1	S-1 (0-1')	Total/NA	Solid	8021B	48321
880-25740-2	S-1 (1.5')	Total/NA	Solid	8021B	48321
880-25740-3	S-1 (2')	Total/NA	Solid	8021B	48321
880-25740-4	S-1 (3')	Total/NA	Solid	8021B	48321
880-25740-5	S-1 (4')	Total/NA	Solid	8021B	48321
880-25740-6	S-1 (5')	Total/NA	Solid	8021B	48321
880-25740-7	S-2 (0-1')	Total/NA	Solid	8021B	48321
880-25740-8	S-2 (1.5')	Total/NA	Solid	8021B	48321
880-25740-9	S-2 (2')	Total/NA	Solid	8021B	48321
880-25740-10	S-2 (3')	Total/NA	Solid	8021B	48321
MB 880-48321/5-A	Method Blank	Total/NA	Solid	8021B	48321
LCS 880-48321/1-A	Lab Control Sample	Total/NA	Solid	8021B	48321
LCSD 880-48321/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48321
880-25739-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	48321
880-25739-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48321

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 48814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-11	S-2 (4')	Total/NA	Solid	8021B	48617
880-25740-12	S-2 (5')	Total/NA	Solid	8021B	48617
880-25740-13	H-1 (0-0.25')	Total/NA	Solid	8021B	48617
880-25740-14	H-2 (0-0.25')	Total/NA	Solid	8021B	48617
880-25740-15	H-3 (0-0.25')	Total/NA	Solid	8021B	48617
880-25740-16	H-4 (0-0.25')	Total/NA	Solid	8021B	48617
MB 880-48308/5-A	Method Blank	Total/NA	Solid	8021B	48308
MB 880-48617/5-A	Method Blank	Total/NA	Solid	8021B	48617
LCS 880-48617/1-A	Lab Control Sample	Total/NA	Solid	8021B	48617
LCSD 880-48617/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48617
880-25738-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	48617
880-25738-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48617

Analysis Batch: 48826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-25740-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-25740-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-25740-4	S-1 (3')	Total/NA	Solid	Total BTEX	
880-25740-5	S-1 (4')	Total/NA	Solid	Total BTEX	
880-25740-6	S-1 (5')	Total/NA	Solid	Total BTEX	
880-25740-7	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-25740-8	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-25740-9	S-2 (2')	Total/NA	Solid	Total BTEX	
880-25740-10	S-2 (3')	Total/NA	Solid	Total BTEX	
880-25740-11	S-2 (4')	Total/NA	Solid	Total BTEX	
880-25740-12	S-2 (5')	Total/NA	Solid	Total BTEX	
880-25740-13	H-1 (0-0.25')	Total/NA	Solid	Total BTEX	
880-25740-14	H-2 (0-0.25')	Total/NA	Solid	Total BTEX	
880-25740-15	H-3 (0-0.25')	Total/NA	Solid	Total BTEX	
880-25740-16	H-4 (0-0.25')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-25740-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-25740-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-25740-4	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-25740-5	S-1 (4')	Total/NA	Solid	8015NM Prep	
880-25740-6	S-1 (5')	Total/NA	Solid	8015NM Prep	
880-25740-7	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-25740-8	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-25740-9	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-25740-10	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-25740-11	S-2 (4')	Total/NA	Solid	8015NM Prep	
880-25740-12	S-2 (5')	Total/NA	Solid	8015NM Prep	
880-25740-13	H-1 (0-0.25')	Total/NA	Solid	8015NM Prep	
MB 880-48343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 48343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-48343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25739-A-12-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25739-A-12-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 48345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-14	H-2 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-25740-15	H-3 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-25740-16	H-4 (0-0.25')	Total/NA	Solid	8015NM Prep	
MB 880-48345/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48345/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48345/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25768-A-27-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25768-A-27-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-1	S-1 (0-1')	Total/NA	Solid	8015B NM	48343
880-25740-2	S-1 (1.5')	Total/NA	Solid	8015B NM	48343
880-25740-3	S-1 (2')	Total/NA	Solid	8015B NM	48343
880-25740-4	S-1 (3')	Total/NA	Solid	8015B NM	48343
880-25740-5	S-1 (4')	Total/NA	Solid	8015B NM	48343
880-25740-6	S-1 (5')	Total/NA	Solid	8015B NM	48343
880-25740-7	S-2 (0-1')	Total/NA	Solid	8015B NM	48343
880-25740-8	S-2 (1.5')	Total/NA	Solid	8015B NM	48343
880-25740-9	S-2 (2')	Total/NA	Solid	8015B NM	48343
880-25740-10	S-2 (3')	Total/NA	Solid	8015B NM	48343
880-25740-11	S-2 (4')	Total/NA	Solid	8015B NM	48343
880-25740-12	S-2 (5')	Total/NA	Solid	8015B NM	48343
880-25740-13	H-1 (0-0.25')	Total/NA	Solid	8015B NM	48343
MB 880-48343/1-A	Method Blank	Total/NA	Solid	8015B NM	48343
LCS 880-48343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48343
LCSD 880-48343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48343
880-25739-A-12-E MS	Matrix Spike	Total/NA	Solid	8015B NM	48343
880-25739-A-12-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48343

Analysis Batch: 48410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-14	H-2 (0-0.25')	Total/NA	Solid	8015B NM	48345
880-25740-15	H-3 (0-0.25')	Total/NA	Solid	8015B NM	48345
880-25740-16	H-4 (0-0.25')	Total/NA	Solid	8015B NM	48345
MB 880-48345/1-A	Method Blank	Total/NA	Solid	8015B NM	48345
LCS 880-48345/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48345
LCSD 880-48345/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48345
880-25768-A-27-C MS	Matrix Spike	Total/NA	Solid	8015B NM	48345
880-25768-A-27-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48345

Analysis Batch: 48530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-25740-2	S-1 (1.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 48530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-25740-4	S-1 (3')	Total/NA	Solid	8015 NM	
880-25740-5	S-1 (4')	Total/NA	Solid	8015 NM	
880-25740-6	S-1 (5')	Total/NA	Solid	8015 NM	
880-25740-7	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-25740-8	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-25740-9	S-2 (2')	Total/NA	Solid	8015 NM	
880-25740-10	S-2 (3')	Total/NA	Solid	8015 NM	
880-25740-11	S-2 (4')	Total/NA	Solid	8015 NM	
880-25740-12	S-2 (5')	Total/NA	Solid	8015 NM	
880-25740-13	H-1 (0-0.25')	Total/NA	Solid	8015 NM	
880-25740-14	H-2 (0-0.25')	Total/NA	Solid	8015 NM	
880-25740-15	H-3 (0-0.25')	Total/NA	Solid	8015 NM	
880-25740-16	H-4 (0-0.25')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-25740-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-25740-3	S-1 (2')	Soluble	Solid	DI Leach	
880-25740-4	S-1 (3')	Soluble	Solid	DI Leach	
880-25740-5	S-1 (4')	Soluble	Solid	DI Leach	
880-25740-6	S-1 (5')	Soluble	Solid	DI Leach	
880-25740-7	S-2 (0-1')	Soluble	Solid	DI Leach	
880-25740-8	S-2 (1.5')	Soluble	Solid	DI Leach	
880-25740-9	S-2 (2')	Soluble	Solid	DI Leach	
MB 880-48299/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48299/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48299/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25739-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25739-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-25739-A-12-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25739-A-12-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 48300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-10	S-2 (3')	Soluble	Solid	DI Leach	
880-25740-11	S-2 (4')	Soluble	Solid	DI Leach	
880-25740-12	S-2 (5')	Soluble	Solid	DI Leach	
880-25740-13	H-1 (0-0.25')	Soluble	Solid	DI Leach	
880-25740-14	H-2 (0-0.25')	Soluble	Solid	DI Leach	
880-25740-15	H-3 (0-0.25')	Soluble	Solid	DI Leach	
880-25740-16	H-4 (0-0.25')	Soluble	Solid	DI Leach	
MB 880-48300/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48300/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48300/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25740-10 MS	S-2 (3')	Soluble	Solid	DI Leach	
880-25740-10 MSD	S-2 (3')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 48576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-1	S-1 (0-1')	Soluble	Solid	300.0	48299
880-25740-2	S-1 (1.5')	Soluble	Solid	300.0	48299
880-25740-3	S-1 (2')	Soluble	Solid	300.0	48299
880-25740-4	S-1 (3')	Soluble	Solid	300.0	48299
880-25740-5	S-1 (4')	Soluble	Solid	300.0	48299
880-25740-6	S-1 (5')	Soluble	Solid	300.0	48299
880-25740-7	S-2 (0-1')	Soluble	Solid	300.0	48299
880-25740-8	S-2 (1.5')	Soluble	Solid	300.0	48299
880-25740-9	S-2 (2')	Soluble	Solid	300.0	48299
MB 880-48299/1-A	Method Blank	Soluble	Solid	300.0	48299
LCS 880-48299/2-A	Lab Control Sample	Soluble	Solid	300.0	48299
LCSD 880-48299/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48299
880-25739-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	48299
880-25739-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48299
880-25739-A-12-B MS	Matrix Spike	Soluble	Solid	300.0	48299
880-25739-A-12-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48299

Analysis Batch: 48577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25740-10	S-2 (3')	Soluble	Solid	300.0	48300
880-25740-11	S-2 (4')	Soluble	Solid	300.0	48300
880-25740-12	S-2 (5')	Soluble	Solid	300.0	48300
880-25740-13	H-1 (0-0.25')	Soluble	Solid	300.0	48300
880-25740-14	H-2 (0-0.25')	Soluble	Solid	300.0	48300
880-25740-15	H-3 (0-0.25')	Soluble	Solid	300.0	48300
880-25740-16	H-4 (0-0.25')	Soluble	Solid	300.0	48300
MB 880-48300/1-A	Method Blank	Soluble	Solid	300.0	48300
LCS 880-48300/2-A	Lab Control Sample	Soluble	Solid	300.0	48300
LCSD 880-48300/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48300
880-25740-10 MS	S-2 (3')	Soluble	Solid	300.0	48300
880-25740-10 MSD	S-2 (3')	Soluble	Solid	300.0	48300

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-25740-1

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/11/23 23:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	48576	03/15/23 03:02	SMC	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-25740-2

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/11/23 23:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	48576	03/15/23 03:07	SMC	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-25740-3

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/11/23 23:46	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	48576	03/15/23 03:21	SMC	EET MID

Client Sample ID: S-1 (3')

Lab Sample ID: 880-25740-4

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (3')

Lab Sample ID: 880-25740-4

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 00:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	48576	03/15/23 03:26	SMC	EET MID

Client Sample ID: S-1 (4')

Lab Sample ID: 880-25740-5

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 00:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	48576	03/15/23 03:31	SMC	EET MID

Client Sample ID: S-1 (5')

Lab Sample ID: 880-25740-6

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 00:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	48576	03/15/23 03:36	SMC	EET MID

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

Lab Sample ID: 880-25740-7

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 01:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (0-1')
Date Collected: 03/06/23 00:00
Date Received: 03/09/23 15:31

Lab Sample ID: 880-25740-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	48576	03/15/23 03:41	SMC	EET MID

Client Sample ID: S-2 (1.5')
Date Collected: 03/06/23 00:00
Date Received: 03/09/23 15:31

Lab Sample ID: 880-25740-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 20:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 01:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	48576	03/15/23 03:46	SMC	EET MID

Client Sample ID: S-2 (2')
Date Collected: 03/06/23 00:00
Date Received: 03/09/23 15:31

Lab Sample ID: 880-25740-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 20:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 01:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48299	03/10/23 10:19	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	48576	03/15/23 03:50	SMC	EET MID

Client Sample ID: S-2 (3')
Date Collected: 03/06/23 00:00
Date Received: 03/09/23 15:31

Lab Sample ID: 880-25740-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48321	03/10/23 12:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/16/23 21:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/17/23 10:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 03:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48300	03/10/23 10:22	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48577	03/15/23 04:29	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (4')

Lab Sample ID: 880-25740-11

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48814	03/19/23 04:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 04:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48300	03/10/23 10:22	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48577	03/15/23 04:44	SMC	EET MID

Client Sample ID: S-2 (5')

Lab Sample ID: 880-25740-12

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48814	03/19/23 06:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 04:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48300	03/10/23 10:22	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48577	03/15/23 04:48	SMC	EET MID

Client Sample ID: H-1 (0-0.25')

Lab Sample ID: 880-25740-13

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

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	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48814	03/19/23 06:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48343	03/10/23 15:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48388	03/12/23 04:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48300	03/10/23 10:22	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48577	03/15/23 04:53	SMC	EET MID

Client Sample ID: H-2 (0-0.25')

Lab Sample ID: 880-25740-14

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/09/23 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48814	03/19/23 06:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/19/23 16:17	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1
SDG: Eddy County, New Mexico

Client Sample ID: H-2 (0-0.25')

Date Collected: 03/06/23 00:00

Date Received: 03/09/23 15:31

Lab Sample ID: 880-25740-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48345	03/10/23 15:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48410	03/12/23 19:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48300	03/10/23 10:22	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48577	03/15/23 04:58	SMC	EET MID

Client Sample ID: H-3 (0-0.25')

Date Collected: 03/06/23 00:00

Date Received: 03/09/23 15:31

Lab Sample ID: 880-25740-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48814	03/19/23 07:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48345	03/10/23 15:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48410	03/12/23 19:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48300	03/10/23 10:22	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48577	03/15/23 05:13	SMC	EET MID

Client Sample ID: H-4 (0-0.25')

Date Collected: 03/06/23 00:00

Date Received: 03/09/23 15:31

Lab Sample ID: 880-25740-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48814	03/19/23 07:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48826	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48530	03/13/23 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48345	03/10/23 15:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48410	03/12/23 20:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48300	03/10/23 10:22	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48577	03/15/23 05:18	SMC	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

Job ID: 880-25740-1

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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

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

Job ID: 880-25740-1

Project/Site: Cottonmouth 13 Fed Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25740-1	S-1 (0-1')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-2	S-1 (1.5')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-3	S-1 (2')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-4	S-1 (3')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-5	S-1 (4')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-6	S-1 (5')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-7	S-2 (0-1')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-8	S-2 (1.5')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-9	S-2 (2')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-10	S-2 (3')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-11	S-2 (4')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-12	S-2 (5')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-13	H-1 (0-0.25')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-14	H-2 (0-0.25')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-15	H-3 (0-0.25')	Solid	03/06/23 00:00	03/09/23 15:31
880-25740-16	H-4 (0-0.25')	Solid	03/06/23 00:00	03/09/23 15:31

Project Manager		Comner Moehring		Bill to (if different)		Jacqui Harris	
Company Name		Carmona Resources		Company Name		COG	
Address		310 W Wall St Ste 500		Address		15 W London Rd	
City, State ZIP		Midland, TX 79701		City, State ZIP		Loving NM 88258	
Phone		432-813-6823		Email		jacqui.harris@conocophillips.com	

Project Name		Cottonmouth 13 Fed Com 001H (1 23 23)		Turn Around		Press. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number				☐ Routine ☒ Rush																		None NO DI Water H ₂ O	
Project Location		Eddy County, New Mexico		Due Date		72 Hrs																Cool Cool MeOH Me	
Sampler's Name		GPJ																				HCL HC HNO ₃ HN	
PO #.																						H ₂ SO ₄ H ₂ NaOH Na	
SAMPLE RECEIPT		Temp Blank		Yes No		Wet Ice		Yes No														H ₃ PO ₄ HP	
Received Intact.		Yes No		Thermometer ID																		NaHSO ₄ NABIS	
Cooler Custody Seals		Yes No		Correction Factor																		Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals		Yes No		Temperature Reading																		Zn Acetate+NaOH Zn	
Total Containers				Corrected Temperature																		NaOH+Ascorbic Acid SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0													Sample Comments
S-1 (0-1')	3/6/2023		X		G	1	X	X	X													880-25740 Chain of Custody 
S-1 (1 5')	3/6/2023		X		G	1	X	X	X													
S-1 (2')	3/6/2023		X		G	1	X	X	X													
S-1 (3')	3/6/2023		X		G	1	X	X	X													
S-1 (4')	3/6/2023		X		G	1	X	X	X													
S-1 (5')	3/6/2023		X		G	1	X	X	X													
S-2 (0-1')	3/6/2023		X		G	1	X	X	X													
S-2 (1 5')	3/6/2023		X		G	1	X	X	X													
S-2 (2')	3/6/2023		X		G	1	X	X	X													
S-2 (3')	3/6/2023		X		G	1	X	X	X													

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

Relinquished by (Signature) *Conner Moehring* Date/Time *3/9/23 1531*

Received by (Signature) *[Signature]* Date/Time

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Iperfund

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other

Work Order No: 2574D

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Work Order No: 25740

Page 2 of 2

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 500	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City State ZIP	Loving NM 88258
Phone	432-813-6823	Email	Jacqui.harris@conconophillips.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Rowfields ☐ IRC ☐ Iperfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name		Cottonmouth 13 Fed Com 001H (1 23 23)		Turn Around		ANALYSIS REQUEST												Preservative Codes	
Project Number		☐ Routine ☒ Rush				Pres. Code											None NO	DI Water H ₂ O	
Project Location	Eddy County, New Mexico	Due Date		72 Hrs													Cool Cool	MeOH Me	
Sampler's Name	GPJ																HCL HC	HNO ₃ HN	
PO #:																	H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes No	Yes No	Wet Ice	Yes No	Parameters												
Received Intact:		Yes No	Thermometer ID				BTEX 8021B												
Cooler Custody Seals.		Yes No N/A	Correction Factor				TPH 8015M (GRO + DRO + MRO)												
Sample Custody Seals		Yes No N/A	Temperature Reading				Chloride 300.0												
Total Containers		Corrected Temperature																	
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
S-2 (4')		3/6/2023		X		G	1	X	X	X									
S-2 (5')		3/6/2023		X		G	1	X	X	X									
H-1 (0-0 5')		3/6/2023		X		G	1	X	X	X									
H-2 (0-0 5')		3/6/2023		X		G	1	X	X	X									
H-3 (0-0 5')		3/6/2023		X		G	1	X	X	X									
H-4 (0-0 5')		3/6/2023		X		G	1	X	X	X									

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

Relinquished by (Signature)		Date/Time	Received by (Signature)		Date/Time
		3/9/23			
		1531			

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-25740-1

SDG Number: Eddy County, New Mexico

Login Number: 25740

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	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Carmona
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701
Generated 4/3/2023 4:18:29 PM

JOB DESCRIPTION

Cottonmouth 13 Fed. Com 001H (1.23.23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-26532-1

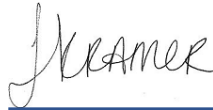
Eurofins Midland
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Job Notes

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

Authorization



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Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Laboratory Job ID: 880-26532-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26532-1
SDG: Eddy County, New Mexico

Job ID: 880-26532-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-26532-1

Receipt

The samples were received on 3/29/2023 2:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (4.5') (880-26532-1), CS-2 (4.5') (880-26532-2), CS-3 (4.5') (880-26532-3), CS-4 (3.5') (880-26532-4), CS-5 (3.5') (880-26532-5), CS-6 (3.5') (880-26532-6), SW-1 (4.5') (880-26532-7), SW-2 (4.5') (880-26532-8), SW-3 (4.5') (880-26532-9), SW-4 (1.0') (880-26532-10), SW-5 (4.5') (880-26532-11), SW-6 (3.5') (880-26532-12), SW-7 (3.5') (880-26532-13), SW-8 (3.5') (880-26532-14), SW-9 (3.5') (880-26532-15) and SW-10 (3.5') (880-26532-16).

GC VOA

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: The surrogate recovery for the blank associated with preparation batch 880-49948 and analytical batch 880-49914 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-49948/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-26533-A-22-E) and (880-26533-A-22-F MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-49948 and analytical batch 880-49914 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49973/2-A) and (LCSD 880-49973/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-49973 and analytical batch 880-49993 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49874 and analytical batch 880-49906 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. (880-26531-A-13-C), (880-26531-A-13-D MS) and (880-26531-A-13-E MSD)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49873 and analytical batch 880-49904 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. CS-2 (4.5') (880-26532-2)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49873 and analytical

Case Narrative

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26532-1
SDG: Eddy County, New Mexico

Job ID: 880-26532-1 (Continued)

Laboratory: Eurofins Midland (Continued)

batch 880-49904 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. CS-3 (4.5') (880-26532-3), CS-4 (3.5') (880-26532-4), CS-5 (3.5') (880-26532-5), CS-6 (3.5') (880-26532-6), SW-1 (4.5') (880-26532-7), SW-2 (4.5') (880-26532-8), SW-3 (4.5') (880-26532-9), SW-4 (1.0') (880-26532-10), SW-5 (4.5') (880-26532-11), SW-6 (3.5') (880-26532-12), (880-26532-A-3-C MS) and (880-26532-A-3-D MSD)

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

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (4.5')

Lab Sample ID: 880-26532-1

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 13:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 13:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 13:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/29/23 16:16	04/01/23 13:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 13:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 16:16	04/01/23 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/29/23 16:16	04/01/23 13:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/29/23 16:16	04/01/23 13:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 00:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 00:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 13:05	03/31/23 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/30/23 13:05	03/31/23 00:45	1
o-Terphenyl	105		70 - 130	03/30/23 13:05	03/31/23 00:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	619		24.9		mg/Kg			03/30/23 14:10	5

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-26532-2

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 13:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 13:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 13:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/29/23 16:16	04/01/23 13:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 13:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 16:16	04/01/23 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/29/23 16:16	04/01/23 13:25	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/29/23 16:16	04/01/23 13:25	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-26532-2

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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			04/03/23 16:44	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			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 01:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 13:05	03/31/23 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/30/23 13:05	03/31/23 01:06	1
o-Terphenyl	113		70 - 130				03/30/23 13:05	03/31/23 01:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		4.95		mg/Kg			03/30/23 06:32	1

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-26532-3

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 13:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 13:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 13:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/29/23 16:16	04/01/23 13:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 13:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/23 16:16	04/01/23 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/29/23 16:16	04/01/23 13:45	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/29/23 16:16	04/01/23 13:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/03/23 16:44	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			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 01:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 01:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-26532-3

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/30/23 13:05	03/31/23 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/30/23 13:05	03/31/23 01:49	1
o-Terphenyl	110		70 - 130				03/30/23 13:05	03/31/23 01:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.4	F1	4.95		mg/Kg			03/30/23 06:37	1

Client Sample ID: CS-4 (3.5')

Lab Sample ID: 880-26532-4

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 14:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/23 16:16	04/01/23 14:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/23 16:16	04/01/23 14:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/29/23 16:16	04/01/23 14:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/23 16:16	04/01/23 14:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/23 16:16	04/01/23 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/29/23 16:16	04/01/23 14:06	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/29/23 16:16	04/01/23 14:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/03/23 16:44	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			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 02:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 02:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 13:05	03/31/23 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/30/23 13:05	03/31/23 02:11	1
o-Terphenyl	115		70 - 130				03/30/23 13:05	03/31/23 02:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		4.99		mg/Kg			03/30/23 06:51	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: CS-5 (3.5')

Lab Sample ID: 880-26532-5

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 14:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 14:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 14:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 14:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 14:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/29/23 16:16	04/01/23 14:26	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/29/23 16:16	04/01/23 14:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 02:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 02:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 13:05	03/31/23 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/30/23 13:05	03/31/23 02:33	1
o-Terphenyl	109		70 - 130	03/30/23 13:05	03/31/23 02:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		25.2		mg/Kg			03/30/23 06:56	5

Client Sample ID: CS-6 (3.5')

Lab Sample ID: 880-26532-6

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 14:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 14:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 14:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 14:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 14:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/29/23 16:16	04/01/23 14:47	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/29/23 16:16	04/01/23 14:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: CS-6 (3.5')

Lab Sample ID: 880-26532-6

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 02:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 02:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 13:05	03/31/23 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				03/30/23 13:05	03/31/23 02:54	1
o-Terphenyl	127		70 - 130				03/30/23 13:05	03/31/23 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	469		4.98		mg/Kg			03/30/23 07:11	1

Client Sample ID: SW-1 (4.5')

Lab Sample ID: 880-26532-7

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 15:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 15:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 15:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/29/23 16:16	04/01/23 15:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 15:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 16:16	04/01/23 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/29/23 16:16	04/01/23 15:07	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/29/23 16:16	04/01/23 15:07	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			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		03/30/23 13:05	03/31/23 03:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		03/30/23 13:05	03/31/23 03:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (4.5')

Lab Sample ID: 880-26532-7

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/30/23 13:05	03/31/23 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/30/23 13:05	03/31/23 03:16	1
o-Terphenyl	112		70 - 130				03/30/23 13:05	03/31/23 03:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		4.97		mg/Kg			03/30/23 07:15	1

Client Sample ID: SW-2 (4.5')

Lab Sample ID: 880-26532-8

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 15:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/29/23 16:16	04/01/23 15:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/29/23 16:16	04/01/23 15:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/29/23 16:16	04/01/23 15:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/29/23 16:16	04/01/23 15:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/29/23 16:16	04/01/23 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/29/23 16:16	04/01/23 15:28	1
1,4-Difluorobenzene (Surr)	110		70 - 130				03/29/23 16:16	04/01/23 15:28	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			04/03/23 16:44	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			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 03:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 03:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 13:05	03/31/23 03:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/30/23 13:05	03/31/23 03:38	1
o-Terphenyl	114		70 - 130				03/30/23 13:05	03/31/23 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.3		4.97		mg/Kg			03/30/23 07:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (4.5')

Lab Sample ID: 880-26532-9

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 17:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/23 16:16	04/01/23 17:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/23 16:16	04/01/23 17:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/29/23 16:16	04/01/23 17:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/23 16:16	04/01/23 17:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/23 16:16	04/01/23 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/29/23 16:16	04/01/23 17:18	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/29/23 16:16	04/01/23 17:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 03:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 03:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 13:05	03/31/23 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/30/23 13:05	03/31/23 03:59	1
o-Terphenyl	112		70 - 130	03/30/23 13:05	03/31/23 03:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.9		4.95		mg/Kg			03/30/23 07:25	1

Client Sample ID: SW-4 (1.0')

Lab Sample ID: 880-26532-10

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 17:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 17:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 17:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 17:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 17:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/29/23 16:16	04/01/23 17:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/29/23 16:16	04/01/23 17:39	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (1.0')

Lab Sample ID: 880-26532-10

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 04:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 04:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 13:05	03/31/23 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/30/23 13:05	03/31/23 04:21	1
o-Terphenyl	102		70 - 130				03/30/23 13:05	03/31/23 04:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.0		5.01		mg/Kg			03/30/23 07:30	1

Client Sample ID: SW-5 (4.5')

Lab Sample ID: 880-26532-11

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 17:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/29/23 16:16	04/01/23 17:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/29/23 16:16	04/01/23 17:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/29/23 16:16	04/01/23 17:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/29/23 16:16	04/01/23 17:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/29/23 16:16	04/01/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/29/23 16:16	04/01/23 17:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/29/23 16:16	04/01/23 17:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 04:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/30/23 13:05	03/31/23 04:43	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (4.5')

Lab Sample ID: 880-26532-11

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/30/23 13:05	03/31/23 04:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/30/23 13:05	03/31/23 04:43	1
o-Terphenyl	113		70 - 130				03/30/23 13:05	03/31/23 04:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		5.03		mg/Kg			03/30/23 07:35	1

Client Sample ID: SW-6 (3.5')

Lab Sample ID: 880-26532-12

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 18:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 18:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 18:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 18:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/29/23 16:16	04/01/23 18:20	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/29/23 16:16	04/01/23 18:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:44	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			03/31/23 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 05:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		03/30/23 13:05	03/31/23 05:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 13:05	03/31/23 05:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/30/23 13:05	03/31/23 05:04	1
o-Terphenyl	111		70 - 130				03/30/23 13:05	03/31/23 05:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.97		mg/Kg			03/30/23 07:39	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-7 (3.5')

Lab Sample ID: 880-26532-13

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 18:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 18:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 18:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 18:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 18:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/29/23 16:16	04/01/23 18:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/29/23 16:16	04/01/23 18:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		03/30/23 13:52	03/31/23 12:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		03/30/23 13:52	03/31/23 12:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 13:52	03/31/23 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/30/23 13:52	03/31/23 12:01	1
o-Terphenyl	79		70 - 130	03/30/23 13:52	03/31/23 12:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.95		mg/Kg			03/29/23 23:19	1

Client Sample ID: SW-8 (3.5')

Lab Sample ID: 880-26532-14

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 19:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 19:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 19:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/29/23 16:16	04/01/23 19:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 19:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 16:16	04/01/23 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/29/23 16:16	04/01/23 19:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/29/23 16:16	04/01/23 19:00	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-8 (3.5')

Lab Sample ID: 880-26532-14

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/03/23 16:44	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			03/31/23 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0		mg/Kg		03/30/23 13:52	03/31/23 13:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		03/30/23 13:52	03/31/23 13:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 13:52	03/31/23 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/30/23 13:52	03/31/23 13:08	1
o-Terphenyl	75		70 - 130				03/30/23 13:52	03/31/23 13:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		4.95		mg/Kg			03/29/23 23:24	1

Client Sample ID: SW-9 (3.5')

Lab Sample ID: 880-26532-15

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 19:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 19:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 19:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/29/23 16:16	04/01/23 19:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 16:16	04/01/23 19:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 16:16	04/01/23 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/29/23 16:16	04/01/23 19:21	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/29/23 16:16	04/01/23 19:21	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			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		03/30/23 13:52	03/31/23 13:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		03/30/23 13:52	03/31/23 13:30	1

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Client Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-9 (3.5')

Lab Sample ID: 880-26532-15

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/30/23 13:52	03/31/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/30/23 13:52	03/31/23 13:30	1
o-Terphenyl	77		70 - 130				03/30/23 13:52	03/31/23 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.5		5.01		mg/Kg			03/29/23 23:28	1

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-26532-16

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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		03/29/23 16:16	04/01/23 19:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 19:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 19:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/29/23 16:16	04/01/23 19:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 19:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/23 16:16	04/01/23 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/29/23 16:16	04/01/23 19:41	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/29/23 16:16	04/01/23 19:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/31/23 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		03/30/23 13:52	03/31/23 13:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		03/30/23 13:52	03/31/23 13:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/30/23 13:52	03/31/23 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/30/23 13:52	03/31/23 13:51	1
o-Terphenyl	76		70 - 130				03/30/23 13:52	03/31/23 13:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		4.98		mg/Kg			03/29/23 23:33	1

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-26425-A-14-H MS	Matrix Spike	100	104
880-26425-A-14-I MSD	Matrix Spike Duplicate	100	107
880-26532-1	CS-1 (4.5')	105	106
880-26532-2	CS-2 (4.5')	106	107
880-26532-3	CS-3 (4.5')	105	106
880-26532-4	CS-4 (3.5')	103	106
880-26532-5	CS-5 (3.5')	98	105
880-26532-6	CS-6 (3.5')	100	109
880-26532-7	SW-1 (4.5')	106	109
880-26532-8	SW-2 (4.5')	99	110
880-26532-9	SW-3 (4.5')	100	107
880-26532-10	SW-4 (1.0')	98	100
880-26532-11	SW-5 (4.5')	101	106
880-26532-12	SW-6 (3.5')	105	109
880-26532-13	SW-7 (3.5')	102	105
880-26532-14	SW-8 (3.5')	104	106
880-26532-15	SW-9 (3.5')	103	106
880-26532-16	SW-10 (3.5')	104	107
LCS 880-49879/1-A	Lab Control Sample	101	111
LCSD 880-49879/2-A	Lab Control Sample Dup	97	109
MB 880-49879/5-A	Method Blank	90	99
MB 880-49940/5-A	Method Blank	94	101
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-26532-1	CS-1 (4.5')	102	105
880-26532-2	CS-2 (4.5')	107	113
880-26532-3	CS-3 (4.5')	103	110
880-26532-4	CS-4 (3.5')	109	115
880-26532-5	CS-5 (3.5')	106	109
880-26532-6	CS-6 (3.5')	115	127
880-26532-7	SW-1 (4.5')	106	112
880-26532-8	SW-2 (4.5')	107	114
880-26532-9	SW-3 (4.5')	106	112
880-26532-10	SW-4 (1.0')	96	102
880-26532-11	SW-5 (4.5')	106	113
880-26532-12	SW-6 (3.5')	106	111
880-26532-13	SW-7 (3.5')	102	79
880-26532-13 MS	SW-7 (3.5')	113	79
880-26532-13 MSD	SW-7 (3.5')	114	77
880-26532-14	SW-8 (3.5')	95	75
880-26532-15	SW-9 (3.5')	98	77

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-26532-16	SW-10 (3.5')	98	76
880-26533-A-22-F MS	Matrix Spike	136 S1+	134 S1+
880-26533-A-22-G MSD	Matrix Spike Duplicate	129	120
LCS 880-49948/2-A	Lab Control Sample	120	124
LCS 880-49973/2-A	Lab Control Sample	81	65 S1-
LCSD 880-49948/3-A	Lab Control Sample Dup	133 S1+	139 S1+
LCSD 880-49973/3-A	Lab Control Sample Dup	76	60 S1-
MB 880-49948/1-A	Method Blank	137 S1+	158 S1+
MB 880-49973/1-A	Method Blank	110	88
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49879/5-A

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 16:16	04/01/23 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/29/23 16:16	04/01/23 11:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/29/23 16:16	04/01/23 11:55	1

Lab Sample ID: LCS 880-49879/1-A

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	0.100	0.1013		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09189		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1817		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09300		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-49879/2-A

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49879

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1041		mg/Kg		104	70 - 130	2	35
Toluene	0.100	0.1004		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.08952		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130	3	35
o-Xylene	0.100	0.09037		mg/Kg		90	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-26425-A-14-H MS

Matrix: Solid

Analysis Batch: 50015

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08022		mg/Kg		80	70 - 130
Toluene	<0.00199	U	0.0998	0.07856		mg/Kg		79	70 - 130

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QC Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-26425-A-14-H MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50015

Prep Batch: 49879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.07081		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1397		mg/Kg		70	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07374		mg/Kg		74	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 880-26425-A-14-I MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50015

Prep Batch: 49879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09383		mg/Kg		95	70 - 130	16	35
Toluene	<0.00199	U	0.0990	0.08598		mg/Kg		87	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.0990	0.07871		mg/Kg		79	70 - 130	11	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1515		mg/Kg		77	70 - 130	8	35
o-Xylene	<0.00199	U	0.0990	0.08154		mg/Kg		82	70 - 130	10	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								

Lab Sample ID: MB 880-49940/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50015

Prep Batch: 49940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:57	04/01/23 00:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/30/23 12:57	04/01/23 00:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/30/23 12:57	04/01/23 00:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/30/23 12:57	04/01/23 00:19	1

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

Lab Sample ID: MB 880-49948/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 49914

Prep Batch: 49948

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		03/30/23 13:05	03/30/23 20:02	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-49948/1-A

Matrix: Solid

Analysis Batch: 49914

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/30/23 13:05	03/30/23 20:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 13:05	03/30/23 20:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				03/30/23 13:05	03/30/23 20:02	1
o-Terphenyl	158	S1+	70 - 130				03/30/23 13:05	03/30/23 20:02	1

Lab Sample ID: LCS 880-49948/2-A

Matrix: Solid

Analysis Batch: 49914

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	915.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	838.5		mg/Kg		84	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	120		70 - 130				
o-Terphenyl	124		70 - 130				

Lab Sample ID: LCSD 880-49948/3-A

Matrix: Solid

Analysis Batch: 49914

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1186	*1	mg/Kg		119	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	1077	*1	mg/Kg		108	70 - 130	25	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	133	S1+	70 - 130						
o-Terphenyl	139	S1+	70 - 130						

Lab Sample ID: 880-26533-A-22-F MS

Matrix: Solid

Analysis Batch: 49914

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	1169		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *1	998	962.0		mg/Kg		95	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	136	S1+	70 - 130						
o-Terphenyl	134	S1+	70 - 130						

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QC Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-26533-A-22-G MSD

Matrix: Solid

Analysis Batch: 49914

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1117		mg/Kg		109	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	999	891.3		mg/Kg		87	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	129		70 - 130								
o-Terphenyl	120		70 - 130								

Lab Sample ID: MB 880-49973/1-A

Matrix: Solid

Analysis Batch: 49993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49973

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		03/30/23 13:52	03/31/23 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/30/23 13:52	03/31/23 09:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/30/23 13:52	03/31/23 09:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/30/23 13:52	03/31/23 09:25	1
o-Terphenyl	88		70 - 130				03/30/23 13:52	03/31/23 09:25	1

Lab Sample ID: LCS 880-49973/2-A

Matrix: Solid

Analysis Batch: 49993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49973

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	397.2	*-	mg/Kg		40	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	538.8	*-	mg/Kg		54	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	81		70 - 130						
o-Terphenyl	65	S1-	70 - 130						

Lab Sample ID: LCSD 880-49973/3-A

Matrix: Solid

Analysis Batch: 49993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49973

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	347.7	*-	mg/Kg		35	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	490.0	*-	mg/Kg		49	70 - 130	9	20

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QC Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-49973/3-A

Matrix: Solid

Analysis Batch: 49993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49973

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	60	S1-	70 - 130

Lab Sample ID: 880-26532-13 MS

Matrix: Solid

Analysis Batch: 49993

Client Sample ID: SW-7 (3.5')

Prep Type: Total/NA

Prep Batch: 49973

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	998	1050		mg/Kg		102	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U *-	998	856.6		mg/Kg		86	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	113		70 - 130							
o-Terphenyl	79		70 - 130							

Lab Sample ID: 880-26532-13 MSD

Matrix: Solid

Analysis Batch: 49993

Client Sample ID: SW-7 (3.5')

Prep Type: Total/NA

Prep Batch: 49973

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	999	1071		mg/Kg		104	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<49.9	U *-	999	853.7		mg/Kg		85	70 - 130	0	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	114		70 - 130									
o-Terphenyl	77		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49873/1-A

Matrix: Solid

Analysis Batch: 49904

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			03/30/23 05:15	1	

Lab Sample ID: LCS 880-49873/2-A

Matrix: Solid

Analysis Batch: 49904

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	262.7		mg/Kg		105	90 - 110			

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QC Sample Results

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-49873/3-A

Matrix: Solid

Analysis Batch: 49904

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	262.5		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-26532-3 MS

Matrix: Solid

Analysis Batch: 49904

Client Sample ID: CS-3 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	69.4	F1	248	372.4	F1	mg/Kg		122	90 - 110

Lab Sample ID: 880-26532-3 MSD

Matrix: Solid

Analysis Batch: 49904

Client Sample ID: CS-3 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	69.4	F1	248	371.8	F1	mg/Kg		122	90 - 110	0	20

Lab Sample ID: MB 880-49874/1-A

Matrix: Solid

Analysis Batch: 49906

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			03/29/23 21:30	1

Lab Sample ID: LCS 880-49874/2-A

Matrix: Solid

Analysis Batch: 49906

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.9		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-49874/3-A

Matrix: Solid

Analysis Batch: 49906

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.6		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 880-26531-A-13-D MS

Matrix: Solid

Analysis Batch: 49906

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	626	F1	253	927.5	F1	mg/Kg		119	90 - 110

Lab Sample ID: 880-26531-A-13-E MSD

Matrix: Solid

Analysis Batch: 49906

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	626	F1	253	922.6	F1	mg/Kg		117	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 49879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-1	CS-1 (4.5')	Total/NA	Solid	5035	
880-26532-2	CS-2 (4.5')	Total/NA	Solid	5035	
880-26532-3	CS-3 (4.5')	Total/NA	Solid	5035	
880-26532-4	CS-4 (3.5')	Total/NA	Solid	5035	
880-26532-5	CS-5 (3.5')	Total/NA	Solid	5035	
880-26532-6	CS-6 (3.5')	Total/NA	Solid	5035	
880-26532-7	SW-1 (4.5')	Total/NA	Solid	5035	
880-26532-8	SW-2 (4.5')	Total/NA	Solid	5035	
880-26532-9	SW-3 (4.5')	Total/NA	Solid	5035	
880-26532-10	SW-4 (1.0')	Total/NA	Solid	5035	
880-26532-11	SW-5 (4.5')	Total/NA	Solid	5035	
880-26532-12	SW-6 (3.5')	Total/NA	Solid	5035	
880-26532-13	SW-7 (3.5')	Total/NA	Solid	5035	
880-26532-14	SW-8 (3.5')	Total/NA	Solid	5035	
880-26532-15	SW-9 (3.5')	Total/NA	Solid	5035	
880-26532-16	SW-10 (3.5')	Total/NA	Solid	5035	
MB 880-49879/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49879/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49879/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26425-A-14-H MS	Matrix Spike	Total/NA	Solid	5035	
880-26425-A-14-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 49940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49940/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 50015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-1	CS-1 (4.5')	Total/NA	Solid	8021B	49879
880-26532-2	CS-2 (4.5')	Total/NA	Solid	8021B	49879
880-26532-3	CS-3 (4.5')	Total/NA	Solid	8021B	49879
880-26532-4	CS-4 (3.5')	Total/NA	Solid	8021B	49879
880-26532-5	CS-5 (3.5')	Total/NA	Solid	8021B	49879
880-26532-6	CS-6 (3.5')	Total/NA	Solid	8021B	49879
880-26532-7	SW-1 (4.5')	Total/NA	Solid	8021B	49879
880-26532-8	SW-2 (4.5')	Total/NA	Solid	8021B	49879
880-26532-9	SW-3 (4.5')	Total/NA	Solid	8021B	49879
880-26532-10	SW-4 (1.0')	Total/NA	Solid	8021B	49879
880-26532-11	SW-5 (4.5')	Total/NA	Solid	8021B	49879
880-26532-12	SW-6 (3.5')	Total/NA	Solid	8021B	49879
880-26532-13	SW-7 (3.5')	Total/NA	Solid	8021B	49879
880-26532-14	SW-8 (3.5')	Total/NA	Solid	8021B	49879
880-26532-15	SW-9 (3.5')	Total/NA	Solid	8021B	49879
880-26532-16	SW-10 (3.5')	Total/NA	Solid	8021B	49879
MB 880-49879/5-A	Method Blank	Total/NA	Solid	8021B	49879
MB 880-49940/5-A	Method Blank	Total/NA	Solid	8021B	49940
LCS 880-49879/1-A	Lab Control Sample	Total/NA	Solid	8021B	49879
LCSD 880-49879/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49879
880-26425-A-14-H MS	Matrix Spike	Total/NA	Solid	8021B	49879
880-26425-A-14-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49879

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 50261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-1	CS-1 (4.5')	Total/NA	Solid	Total BTEX	
880-26532-2	CS-2 (4.5')	Total/NA	Solid	Total BTEX	
880-26532-3	CS-3 (4.5')	Total/NA	Solid	Total BTEX	
880-26532-4	CS-4 (3.5')	Total/NA	Solid	Total BTEX	
880-26532-5	CS-5 (3.5')	Total/NA	Solid	Total BTEX	
880-26532-6	CS-6 (3.5')	Total/NA	Solid	Total BTEX	
880-26532-7	SW-1 (4.5')	Total/NA	Solid	Total BTEX	
880-26532-8	SW-2 (4.5')	Total/NA	Solid	Total BTEX	
880-26532-9	SW-3 (4.5')	Total/NA	Solid	Total BTEX	
880-26532-10	SW-4 (1.0')	Total/NA	Solid	Total BTEX	
880-26532-11	SW-5 (4.5')	Total/NA	Solid	Total BTEX	
880-26532-12	SW-6 (3.5')	Total/NA	Solid	Total BTEX	
880-26532-13	SW-7 (3.5')	Total/NA	Solid	Total BTEX	
880-26532-14	SW-8 (3.5')	Total/NA	Solid	Total BTEX	
880-26532-15	SW-9 (3.5')	Total/NA	Solid	Total BTEX	
880-26532-16	SW-10 (3.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 49914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-1	CS-1 (4.5')	Total/NA	Solid	8015B NM	49948
880-26532-2	CS-2 (4.5')	Total/NA	Solid	8015B NM	49948
880-26532-3	CS-3 (4.5')	Total/NA	Solid	8015B NM	49948
880-26532-4	CS-4 (3.5')	Total/NA	Solid	8015B NM	49948
880-26532-5	CS-5 (3.5')	Total/NA	Solid	8015B NM	49948
880-26532-6	CS-6 (3.5')	Total/NA	Solid	8015B NM	49948
880-26532-7	SW-1 (4.5')	Total/NA	Solid	8015B NM	49948
880-26532-8	SW-2 (4.5')	Total/NA	Solid	8015B NM	49948
880-26532-9	SW-3 (4.5')	Total/NA	Solid	8015B NM	49948
880-26532-10	SW-4 (1.0')	Total/NA	Solid	8015B NM	49948
880-26532-11	SW-5 (4.5')	Total/NA	Solid	8015B NM	49948
880-26532-12	SW-6 (3.5')	Total/NA	Solid	8015B NM	49948
MB 880-49948/1-A	Method Blank	Total/NA	Solid	8015B NM	49948
LCS 880-49948/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49948
LCSD 880-49948/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49948
880-26533-A-22-F MS	Matrix Spike	Total/NA	Solid	8015B NM	49948
880-26533-A-22-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49948

Prep Batch: 49948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-1	CS-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-26532-2	CS-2 (4.5')	Total/NA	Solid	8015NM Prep	
880-26532-3	CS-3 (4.5')	Total/NA	Solid	8015NM Prep	
880-26532-4	CS-4 (3.5')	Total/NA	Solid	8015NM Prep	
880-26532-5	CS-5 (3.5')	Total/NA	Solid	8015NM Prep	
880-26532-6	CS-6 (3.5')	Total/NA	Solid	8015NM Prep	
880-26532-7	SW-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-26532-8	SW-2 (4.5')	Total/NA	Solid	8015NM Prep	
880-26532-9	SW-3 (4.5')	Total/NA	Solid	8015NM Prep	
880-26532-10	SW-4 (1.0')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 49948 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-11	SW-5 (4.5')	Total/NA	Solid	8015NM Prep	
880-26532-12	SW-6 (3.5')	Total/NA	Solid	8015NM Prep	
MB 880-49948/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49948/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49948/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26533-A-22-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26533-A-22-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 49973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-13	SW-7 (3.5')	Total/NA	Solid	8015NM Prep	
880-26532-14	SW-8 (3.5')	Total/NA	Solid	8015NM Prep	
880-26532-15	SW-9 (3.5')	Total/NA	Solid	8015NM Prep	
880-26532-16	SW-10 (3.5')	Total/NA	Solid	8015NM Prep	
MB 880-49973/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49973/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49973/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26532-13 MS	SW-7 (3.5')	Total/NA	Solid	8015NM Prep	
880-26532-13 MSD	SW-7 (3.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-13	SW-7 (3.5')	Total/NA	Solid	8015B NM	49973
880-26532-14	SW-8 (3.5')	Total/NA	Solid	8015B NM	49973
880-26532-15	SW-9 (3.5')	Total/NA	Solid	8015B NM	49973
880-26532-16	SW-10 (3.5')	Total/NA	Solid	8015B NM	49973
MB 880-49973/1-A	Method Blank	Total/NA	Solid	8015B NM	49973
LCS 880-49973/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49973
LCSD 880-49973/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49973
880-26532-13 MS	SW-7 (3.5')	Total/NA	Solid	8015B NM	49973
880-26532-13 MSD	SW-7 (3.5')	Total/NA	Solid	8015B NM	49973

Analysis Batch: 50014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-1	CS-1 (4.5')	Total/NA	Solid	8015 NM	
880-26532-2	CS-2 (4.5')	Total/NA	Solid	8015 NM	
880-26532-3	CS-3 (4.5')	Total/NA	Solid	8015 NM	
880-26532-4	CS-4 (3.5')	Total/NA	Solid	8015 NM	
880-26532-5	CS-5 (3.5')	Total/NA	Solid	8015 NM	
880-26532-6	CS-6 (3.5')	Total/NA	Solid	8015 NM	
880-26532-7	SW-1 (4.5')	Total/NA	Solid	8015 NM	
880-26532-8	SW-2 (4.5')	Total/NA	Solid	8015 NM	
880-26532-9	SW-3 (4.5')	Total/NA	Solid	8015 NM	
880-26532-10	SW-4 (1.0')	Total/NA	Solid	8015 NM	
880-26532-11	SW-5 (4.5')	Total/NA	Solid	8015 NM	
880-26532-12	SW-6 (3.5')	Total/NA	Solid	8015 NM	
880-26532-13	SW-7 (3.5')	Total/NA	Solid	8015 NM	
880-26532-14	SW-8 (3.5')	Total/NA	Solid	8015 NM	
880-26532-15	SW-9 (3.5')	Total/NA	Solid	8015 NM	
880-26532-16	SW-10 (3.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 49873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-1	CS-1 (4.5')	Soluble	Solid	DI Leach	
880-26532-2	CS-2 (4.5')	Soluble	Solid	DI Leach	
880-26532-3	CS-3 (4.5')	Soluble	Solid	DI Leach	
880-26532-4	CS-4 (3.5')	Soluble	Solid	DI Leach	
880-26532-5	CS-5 (3.5')	Soluble	Solid	DI Leach	
880-26532-6	CS-6 (3.5')	Soluble	Solid	DI Leach	
880-26532-7	SW-1 (4.5')	Soluble	Solid	DI Leach	
880-26532-8	SW-2 (4.5')	Soluble	Solid	DI Leach	
880-26532-9	SW-3 (4.5')	Soluble	Solid	DI Leach	
880-26532-10	SW-4 (1.0')	Soluble	Solid	DI Leach	
880-26532-11	SW-5 (4.5')	Soluble	Solid	DI Leach	
880-26532-12	SW-6 (3.5')	Soluble	Solid	DI Leach	
MB 880-49873/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49873/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49873/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26532-3 MS	CS-3 (4.5')	Soluble	Solid	DI Leach	
880-26532-3 MSD	CS-3 (4.5')	Soluble	Solid	DI Leach	

Leach Batch: 49874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-13	SW-7 (3.5')	Soluble	Solid	DI Leach	
880-26532-14	SW-8 (3.5')	Soluble	Solid	DI Leach	
880-26532-15	SW-9 (3.5')	Soluble	Solid	DI Leach	
880-26532-16	SW-10 (3.5')	Soluble	Solid	DI Leach	
MB 880-49874/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49874/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49874/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26531-A-13-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26531-A-13-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-1	CS-1 (4.5')	Soluble	Solid	300.0	49873
880-26532-2	CS-2 (4.5')	Soluble	Solid	300.0	49873
880-26532-3	CS-3 (4.5')	Soluble	Solid	300.0	49873
880-26532-4	CS-4 (3.5')	Soluble	Solid	300.0	49873
880-26532-5	CS-5 (3.5')	Soluble	Solid	300.0	49873
880-26532-6	CS-6 (3.5')	Soluble	Solid	300.0	49873
880-26532-7	SW-1 (4.5')	Soluble	Solid	300.0	49873
880-26532-8	SW-2 (4.5')	Soluble	Solid	300.0	49873
880-26532-9	SW-3 (4.5')	Soluble	Solid	300.0	49873
880-26532-10	SW-4 (1.0')	Soluble	Solid	300.0	49873
880-26532-11	SW-5 (4.5')	Soluble	Solid	300.0	49873
880-26532-12	SW-6 (3.5')	Soluble	Solid	300.0	49873
MB 880-49873/1-A	Method Blank	Soluble	Solid	300.0	49873
LCS 880-49873/2-A	Lab Control Sample	Soluble	Solid	300.0	49873
LCSD 880-49873/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49873
880-26532-3 MS	CS-3 (4.5')	Soluble	Solid	300.0	49873
880-26532-3 MSD	CS-3 (4.5')	Soluble	Solid	300.0	49873

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26532-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 49906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26532-13	SW-7 (3.5')	Soluble	Solid	300.0	49874
880-26532-14	SW-8 (3.5')	Soluble	Solid	300.0	49874
880-26532-15	SW-9 (3.5')	Soluble	Solid	300.0	49874
880-26532-16	SW-10 (3.5')	Soluble	Solid	300.0	49874
MB 880-49874/1-A	Method Blank	Soluble	Solid	300.0	49874
LCS 880-49874/2-A	Lab Control Sample	Soluble	Solid	300.0	49874
LCSD 880-49874/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49874
880-26531-A-13-D MS	Matrix Spike	Soluble	Solid	300.0	49874
880-26531-A-13-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49874

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26532-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (4.5')

Lab Sample ID: 880-26532-1

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 00:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49904	03/30/23 14:10	SMC	EET MID

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-26532-2

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 13:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 01:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 06:32	SMC	EET MID

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-26532-3

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 01:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 06:37	SMC	EET MID

Client Sample ID: CS-4 (3.5')

Lab Sample ID: 880-26532-4

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26532-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (3.5')

Date Collected: 03/28/23 00:00

Date Received: 03/29/23 14:19

Lab Sample ID: 880-26532-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 02:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 06:51	SMC	EET MID

Client Sample ID: CS-5 (3.5')

Date Collected: 03/28/23 00:00

Date Received: 03/29/23 14:19

Lab Sample ID: 880-26532-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 02:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49904	03/30/23 06:56	SMC	EET MID

Client Sample ID: CS-6 (3.5')

Date Collected: 03/28/23 00:00

Date Received: 03/29/23 14:19

Lab Sample ID: 880-26532-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 14:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 02:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 07:11	SMC	EET MID

Client Sample ID: SW-1 (4.5')

Date Collected: 03/28/23 00:00

Date Received: 03/29/23 14:19

Lab Sample ID: 880-26532-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 03:16	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26532-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (4.5')

Date Collected: 03/28/23 00:00

Date Received: 03/29/23 14:19

Lab Sample ID: 880-26532-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 07:15	SMC	EET MID

Client Sample ID: SW-2 (4.5')

Date Collected: 03/28/23 00:00

Date Received: 03/29/23 14:19

Lab Sample ID: 880-26532-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 15:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 03:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 07:20	SMC	EET MID

Client Sample ID: SW-3 (4.5')

Date Collected: 03/28/23 00:00

Date Received: 03/29/23 14:19

Lab Sample ID: 880-26532-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 17:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 03:59	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 07:25	SMC	EET MID

Client Sample ID: SW-4 (1.0')

Date Collected: 03/28/23 00:00

Date Received: 03/29/23 14:19

Lab Sample ID: 880-26532-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 04:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 07:30	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (4.5')

Lab Sample ID: 880-26532-11

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 04:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 07:35	SMC	EET MID

Client Sample ID: SW-6 (3.5')

Lab Sample ID: 880-26532-12

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49948	03/30/23 13:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49914	03/31/23 05:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49873	03/29/23 15:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49904	03/30/23 07:39	SMC	EET MID

Client Sample ID: SW-7 (3.5')

Lab Sample ID: 880-26532-13

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49973	03/30/23 13:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	03/31/23 12:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49874	03/29/23 15:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49906	03/29/23 23:19	SMC	EET MID

Client Sample ID: SW-8 (3.5')

Lab Sample ID: 880-26532-14

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Client Sample ID: SW-8 (3.5')

Lab Sample ID: 880-26532-14

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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			50014	03/31/23 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49973	03/30/23 13:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	03/31/23 13:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49874	03/29/23 15:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49906	03/29/23 23:24	SMC	EET MID

Client Sample ID: SW-9 (3.5')

Lab Sample ID: 880-26532-15

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

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	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49973	03/30/23 13:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	03/31/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49874	03/29/23 15:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49906	03/29/23 23:28	SMC	EET MID

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-26532-16

Date Collected: 03/28/23 00:00

Matrix: Solid

Date Received: 03/29/23 14:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 19:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50261	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			50014	03/31/23 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49973	03/30/23 13:52	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	03/31/23 13:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49874	03/29/23 15:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49906	03/29/23 23:33	SMC	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26532-1
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
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Method Summary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

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

Eurofins Midland

Sample Summary

Client: Carmona Resources

Job ID: 880-26532-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26532-1	CS-1 (4.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-2	CS-2 (4.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-3	CS-3 (4.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-4	CS-4 (3.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-5	CS-5 (3.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-6	CS-6 (3.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-7	SW-1 (4.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-8	SW-2 (4.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-9	SW-3 (4.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-10	SW-4 (1.0')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-11	SW-5 (4.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-12	SW-6 (3.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-13	SW-7 (3.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-14	SW-8 (3.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-15	SW-9 (3.5')	Solid	03/28/23 00:00	03/29/23 14:19
880-26532-16	SW-10 (3.5')	Solid	03/28/23 00:00	03/29/23 14:19

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Work Order No: 20532

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Project Manager		Conner Moehring		Bill to, (if different)		Carmona Resources	
Company Name		Carmona Resources		Company Name			
Address		310 W Wall St Ste 415		Address			
City, State ZIP		Midland, TX 79701		City, State ZIP			
Phone		432-813-6823		Email		mcarmona@carmonaresources.com	
Work Order Comments Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐ State of Project: Reporting Level II ☐ Level III ☐ ST/UST ☐ PRP ☐ Level IV ☐ Deliverables EDD ☐ ADAPT ☐ Other							

Project Name		Cottonmouth 13 Fed Com 001H (1 23 23)		Turn Around		ANALYSIS REQUEST		Preservative Codes													
Project Number		1247		☐ Routine ☒ Rush				None NO DI Water H ₂ O													
Project Location		Eddy County, New Mexico		Due Date				Cool Cool Me													
Sampler's Name		MM		48 Hrs				HCL HC HNO ₃ HN													
PO #								H ₂ SO ₄ H ₂													
SAMPLE RECEIPT		Temp Blank		Yes No				H ₃ PO ₄ HP													
Received Intact		Yes No		Thermometer ID				NaHSO ₄ NABIS													
Cooler Custody Seals		Yes No		Correction Factor				Na ₂ S ₂ O ₃ NaSO ₃													
Sample Custody Seals		Yes No		Temperature Reading				Zn Acetate+NaOH Zn													
Total Containers		N/A		Corrected Temperature				NaOH+Ascorbic Acid SAPC													
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont		Parameters		BTEX 8021B		TPH 8015M (GRO + DRO + MRO)		Chloride 300.0	
CS-1 (4 5)		3/28/2023				X				C		1		X		X		X		X	
CS-2 (4 5)		3/28/2023				X				C		1		X		X		X		X	
CS-3 (4 5)		3/28/2023				X				C		1		X		X		X		X	
CS-4 (3 5)		3/28/2023				X				C		1		X		X		X		X	
CS-5 (3 5)		3/28/2023				X				C		1		X		X		X		X	
CS-6 (3 5)		3/28/2023				X				C		1		X		X		X		X	
SW-1 (4 5)		3/28/2023				X				C		1		X		X		X		X	
SW-2 (4 5)		3/28/2023				X				C		1		X		X		X		X	
SW-3 (4 5)		3/28/2023				X				C		1		X		X		X		X	
SW-4 (1 0)		3/28/2023				X				C		1		X		X		X		X	

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



Sample Comments

Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
		3-29-23 1419					

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Work Order No: 20532

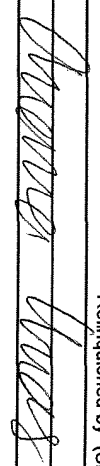
Page 2 of 2

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 415	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Refund ☐	
State of Project:	
Reporting Level I ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other	

Project Name		Cottonmouth 13 Fed Com 001H (1.23.23)		Turn Around		ANALYSIS REQUEST												Preservative Codes	
Project Number		1247	☐ Routine ☒ Rush			Pres. Code											None NO	DI Water H ₂ O	
Project Location	Eddy County, New Mexico			Due Date		48 Hrs											Cool Cool	MeOH Me	
Sampler's Name	MM																HCL HC	HNO ₃ HN	
PO #:																	H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT				Temp Blank	Yes No	Yes No	Well Ice	Yes No									H ₃ PO ₄ HP		
Received Intact:				Yes No	Thermometer ID												NaHSO ₄ NABIS		
Cooler Custody Seals				Yes No N/A	Correction Factor												Na ₂ S ₂ O ₃ NaSO ₃		
Sample Custody Seals:				Yes No N/A	Temperature Reading												Zn Acetate+NaOH Zn		
Total Containers					Corrected Temperature												NaOH+Ascorbic Acid SAPC		
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters										Sample Comments	
SW-5 (4.5')		3/28/2023		X		C	1	X	X	X	X								
SW-6 (3.5')		3/28/2023		X		C	1	X	X	X	X								
SW-7 (3.5')		3/28/2023		X		C	1	X	X	X	X								
SW-8 (3.5')		3/28/2023		X		C	1	X	X	X	X								
SW-9 (3.5')		3/28/2023		X		C	1	X	X	X	X								
SW-10 (3.5')		3/28/2023		X		C	1	X	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
	3-29-23 1419		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-26532-1

SDG Number: Eddy County, New Mexico

Login Number: 26532

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/12/2023 8:33:09 AM

JOB DESCRIPTION

Cottonmouth 13 Fed. Com 001H (1.23.23)
SDG NUMBER Eddy county, New Mexico

JOB NUMBER

880-26982-1

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
4/12/2023 8:33:09 AM

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

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Laboratory Job ID: 880-26982-1
SDG: Eddy county, New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26982-1
SDG: Eddy county, New Mexico

Job ID: 880-26982-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-26982-1****Receipt**

The sample was received on 4/10/2023 3:25 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: CS-1 (5') (880-26982-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-50536 and analytical batch 880-50769 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-50902/2-A) and (LCSD 880-50902/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-26982-A-1-D MS) and (880-26982-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-50902 and analytical batch 880-50866 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

Client Sample ID: CS-1 (5')

Lab Sample ID: 880-26982-1

Date Collected: 04/07/23 00:00

Matrix: Solid

Date Received: 04/10/23 15:25

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		04/10/23 16:00	04/10/23 19:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:00	04/10/23 19:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:00	04/10/23 19:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/10/23 16:00	04/10/23 19:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 16:00	04/10/23 19:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/10/23 16:00	04/10/23 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	04/10/23 16:00	04/10/23 19:47	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/10/23 16:00	04/10/23 19:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/11/23 10:21	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			04/12/23 09:01	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		04/11/23 11:07	04/11/23 22:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/11/23 11:07	04/11/23 22:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/11/23 11:07	04/11/23 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	04/11/23 11:07	04/11/23 22:06	1
o-Terphenyl	76		70 - 130	04/11/23 11:07	04/11/23 22:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.02		mg/Kg			04/10/23 23:37	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-26925-A-1-D MS	Matrix Spike	96	122
880-26925-A-1-E MSD	Matrix Spike Duplicate	116	104
880-26982-1	CS-1 (5')	87	82
LCS 880-50536/1-A	Lab Control Sample	96	110
LCSD 880-50536/2-A	Lab Control Sample Dup	100	112
MB 880-50536/5-B	Method Blank	80	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-26982-1	CS-1 (5')	71	76
880-26982-1 MS	CS-1 (5')	74	67 S1-
880-26982-1 MSD	CS-1 (5')	76	69 S1-
LCS 880-50902/2-A	Lab Control Sample	9 S1-	7 S1-
LCSD 880-50902/3-A	Lab Control Sample Dup	9 S1-	7 S1-
MB 880-50902/1-A	Method Blank	83	92
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50536/5-B

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 09:30	04/10/23 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	04/10/23 09:30	04/10/23 11:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/10/23 09:30	04/10/23 11:54	1

Lab Sample ID: LCS 880-50536/1-A

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1031		mg/Kg		103	70 - 130
Toluene	0.100	0.09177		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08629		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1808		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09129		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-50536/2-A

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50536

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1183		mg/Kg		118	70 - 130	14	35
Toluene	0.100	0.1095		mg/Kg		110	70 - 130	18	35
Ethylbenzene	0.100	0.09842		mg/Kg		98	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2032		mg/Kg		102	70 - 130	12	35
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-26925-A-1-D MS

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F2 F1	0.0998	0.04997	F1	mg/Kg		50	70 - 130
Toluene	<0.00199	U F2 F1	0.0998	0.02828	F1	mg/Kg		27	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

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

Lab Sample ID: 880-26925-A-1-D MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50769

Prep Batch: 50536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.01813	F1	mg/Kg		17	70 - 130
m-Xylene & p-Xylene	0.00405	F2 F1	0.200	0.03772	F1	mg/Kg		17	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0998	0.01924	F1	mg/Kg		17	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: 880-26925-A-1-E MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50769

Prep Batch: 50536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0990	0.07394	F2	mg/Kg		75	70 - 130	39	35
Toluene	<0.00199	U F2 F1	0.0990	0.05099	F2 F1	mg/Kg		50	70 - 130	57	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.03511	F2 F1	mg/Kg		34	70 - 130	64	35
m-Xylene & p-Xylene	0.00405	F2 F1	0.198	0.07537	F2 F1	mg/Kg		36	70 - 130	67	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.04842	F2 F1	mg/Kg		47	70 - 130	86	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-50902/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50866

Prep Batch: 50902

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		04/11/23 11:07	04/11/23 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/11/23 11:07	04/11/23 21:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/11/23 11:07	04/11/23 21:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	04/11/23 11:07	04/11/23 21:06	1
o-Terphenyl	92		70 - 130	04/11/23 11:07	04/11/23 21:06	1

Lab Sample ID: LCS 880-50902/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50866

Prep Batch: 50902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1136		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	967.0		mg/Kg		97	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

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

Lab Sample ID: LCS 880-50902/2-A

Matrix: Solid

Analysis Batch: 50866

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50902

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	9	S1-	70 - 130
o-Terphenyl	7	S1-	70 - 130

Lab Sample ID: LCSD 880-50902/3-A

Matrix: Solid

Analysis Batch: 50866

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1102		mg/Kg		110	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	946.9		mg/Kg		95	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	9	S1-	70 - 130
o-Terphenyl	7	S1-	70 - 130

Lab Sample ID: 880-26982-1 MS

Matrix: Solid

Analysis Batch: 50866

Client Sample ID: CS-1 (5')

Prep Type: Total/NA

Prep Batch: 50902

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1099		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1051		mg/Kg		103	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: 880-26982-1 MSD

Matrix: Solid

Analysis Batch: 50866

Client Sample ID: CS-1 (5')

Prep Type: Total/NA

Prep Batch: 50902

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1116		mg/Kg		110	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1072		mg/Kg		105	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	69	S1-	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50848/1-A

Matrix: Solid

Analysis Batch: 50878

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			04/10/23 21:22	1

Lab Sample ID: LCS 880-50848/2-A

Matrix: Solid

Analysis Batch: 50878

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-50848/3-A

Matrix: Solid

Analysis Batch: 50878

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-26981-A-28-C MS

Matrix: Solid

Analysis Batch: 50878

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	87.2		251	345.8		mg/Kg		103	90 - 110

Lab Sample ID: 880-26981-A-28-D MSD

Matrix: Solid

Analysis Batch: 50878

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	87.2		251	345.6		mg/Kg		103	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

GC VOA

Prep Batch: 50536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26982-1	CS-1 (5')	Total/NA	Solid	5035	
MB 880-50536/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-50536/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50536/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26925-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-26925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26982-1	CS-1 (5')	Total/NA	Solid	8021B	50536
MB 880-50536/5-B	Method Blank	Total/NA	Solid	8021B	50536
LCS 880-50536/1-A	Lab Control Sample	Total/NA	Solid	8021B	50536
LCSD 880-50536/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50536
880-26925-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	50536
880-26925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50536

Analysis Batch: 50891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26982-1	CS-1 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 50866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26982-1	CS-1 (5')	Total/NA	Solid	8015B NM	50902
MB 880-50902/1-A	Method Blank	Total/NA	Solid	8015B NM	50902
LCS 880-50902/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50902
LCSD 880-50902/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50902
880-26982-1 MS	CS-1 (5')	Total/NA	Solid	8015B NM	50902
880-26982-1 MSD	CS-1 (5')	Total/NA	Solid	8015B NM	50902

Prep Batch: 50902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26982-1	CS-1 (5')	Total/NA	Solid	8015NM Prep	
MB 880-50902/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50902/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50902/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26982-1 MS	CS-1 (5')	Total/NA	Solid	8015NM Prep	
880-26982-1 MSD	CS-1 (5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26982-1	CS-1 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26982-1	CS-1 (5')	Soluble	Solid	DI Leach	
MB 880-50848/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50848/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50848/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

SDG: Eddy county, New Mexico

HPLC/IC (Continued)

Leach Batch: 50848 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26981-A-28-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26981-A-28-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26982-1	CS-1 (5')	Soluble	Solid	300.0	50848
MB 880-50848/1-A	Method Blank	Soluble	Solid	300.0	50848
LCS 880-50848/2-A	Lab Control Sample	Soluble	Solid	300.0	50848
LCSD 880-50848/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50848
880-26981-A-28-C MS	Matrix Spike	Soluble	Solid	300.0	50848
880-26981-A-28-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50848

Lab Chronicle

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26982-1
SDG: Eddy county, New Mexico

Client Sample ID: CS-1 (5')
Date Collected: 04/07/23 00:00
Date Received: 04/10/23 15:25

Lab Sample ID: 880-26982-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	50536	04/10/23 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/10/23 19:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50891	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50950	04/12/23 09:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50902	04/11/23 11:07	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50866	04/11/23 22:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50848	04/10/23 16:32	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50878	04/10/23 23:37	SMC	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: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26982-1
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
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Carmona Resources

Job ID: 880-26982-1

Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Cottonmouth 13 Fed. Com 001H (1.23.23)

Job ID: 880-26982-1
SDG: Eddy county, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26982-1	CS-1 (5')	Solid	04/07/23 00:00	04/10/23 15:25

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

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

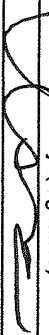
Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Work Order No: 26982

Page 1 of 1

[illegible]

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	4-11-23 1525		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-26982-1

SDG Number: Eddy county, New Mexico

Login Number: 26982

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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	

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 228713

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 228713
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/3/2023