



SITE INFORMATION

Closure Report
Diamondback 22 State Com 002H (07.09.22)
Incident # NAPP2220251441
Eddy County, New Mexico
Unit D Sec 22 T26S R28E
32.032412°, -104.080534°

Produced Water Release
Point of Release: Flowline failure due to corrosion
Release Date: 07.09.2022
Volume Released: 3 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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January 5, 2022

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

Re: Closure Report
Diamondback 22 State Com 002H (07.09.22)
Concho Operating, LLC
Incident # NAPP2220251441
Site Location: Unit D, S22, T26S, R28E
(Lat 32.032412°, Long -104.080534°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Diamondback 22 State Com 002H (07.09.22). The site is located at 32.032412°, -104.080534° within Unit D, S22, T26S, R28E, 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 July 9, 2022, from a flowline failure due to corrosion. It resulted in the release of approximately three (3) barrels of produced water, and zero (0) barrels were recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.27 miles Southwest of the site in S22, T26S, R28E and was drilled in 1961. The well has a reported depth to groundwater of 120' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

On November 16, 2021, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 59' below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 59' below the surface. The coordinates for the groundwater determination bore are 32.03314°, -104.08201. See Appendix D for the log.

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.

310 West Wall Street, Suite 415
Midland, Texas 79701
432.813.1992



4.0 Site Assessment Activities

Initial Assessment

On July 21, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) sample points and four (4) horizontal samples were advanced to depths ranging from the surface to 3.5' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil 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.

Vertical Delineation

Vertical delineation was not achieved. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-4 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

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 NMOCD division office was notified via email on December 8, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 8' below the surface, and the area of S-2 was excavated to a depth of 2.5' below the surface to remove all the impacted soils. A total of five (5) floor confirmation samples were collected (CS-1 through CS-5), and twelve (12) sidewall samples (SW-1 through SW-12) 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 regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 140 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 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

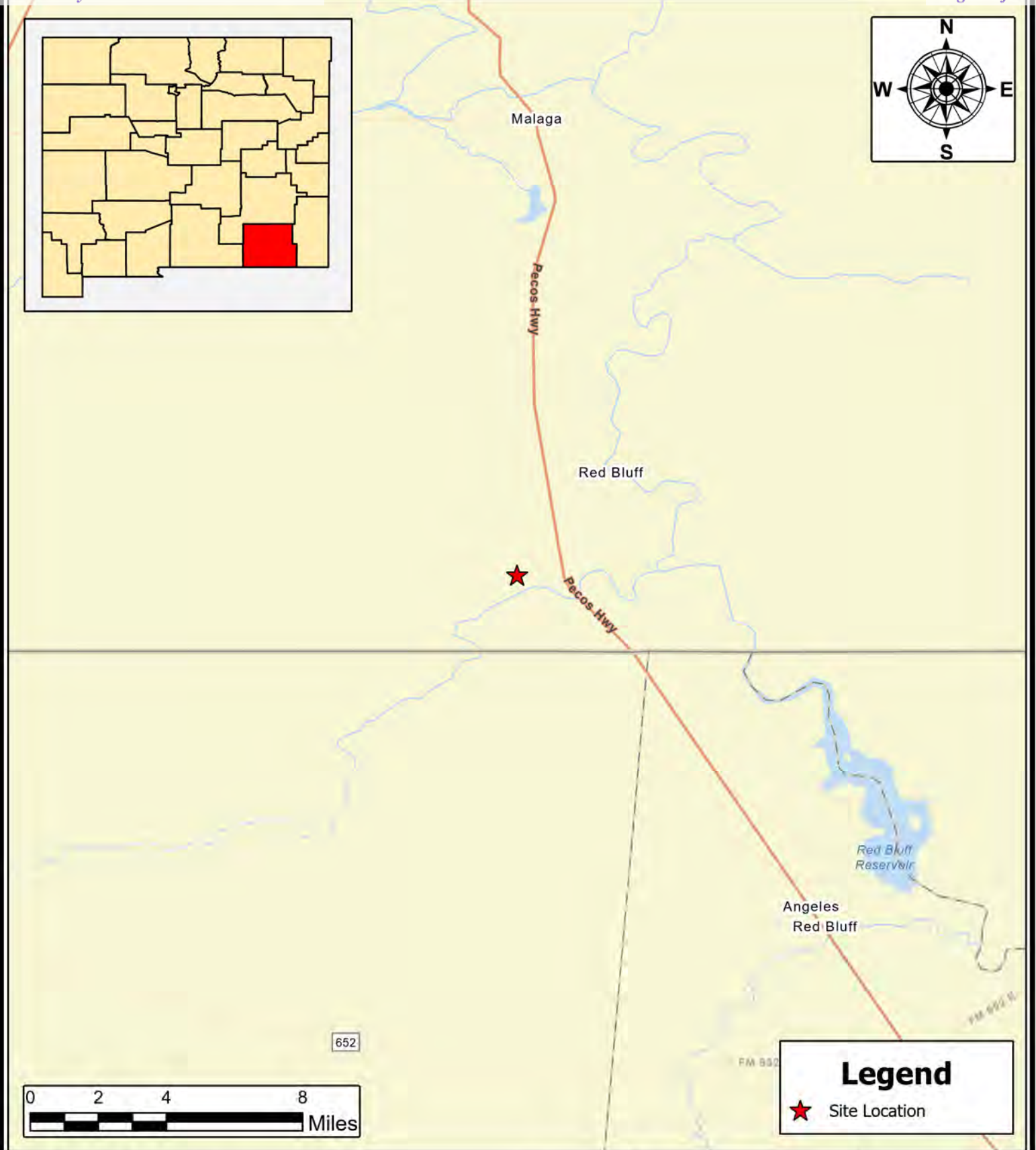
Mike Carmona
Environmental Manager

Clinton Merritt
Sr. Project Manager

FIGURES

CARMONA RESOURCES



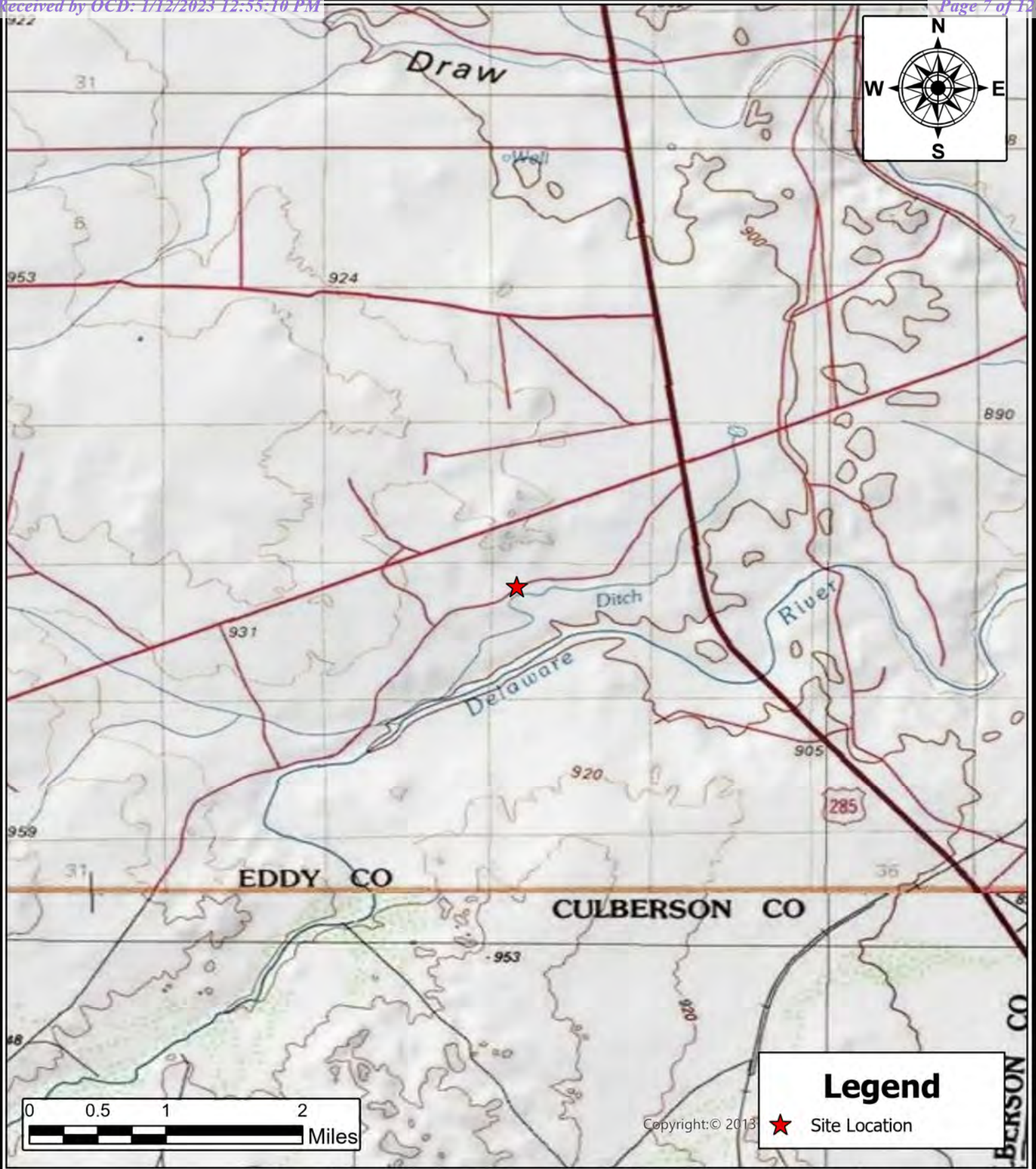


OVERVIEW MAP COG OPERATING DIAMONDBACK 22 STATE COM 002H (07.09.22) EDDY COUNTY, NEW MEXICO 32.032412, -104.080534	
SCALE: As Shown	Date: 8/15/2022

 Carmona Resources 310 West Wall Street, Suite 415 Midland, Texas 79701
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NOTES: 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER: FIGURE 1
SHEET NUMBER: 1 of 1



TOPOGRAPHIC MAP
COG OPERATING
DIAMONDBACK 22 STATE COM 002H (07.09.22)
EDDY COUNTY, NEW MEXICO
32.032412, -104.080534

SCALE: As Shown

Date: 8/15/2022

CARMONA RESOURCES

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310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

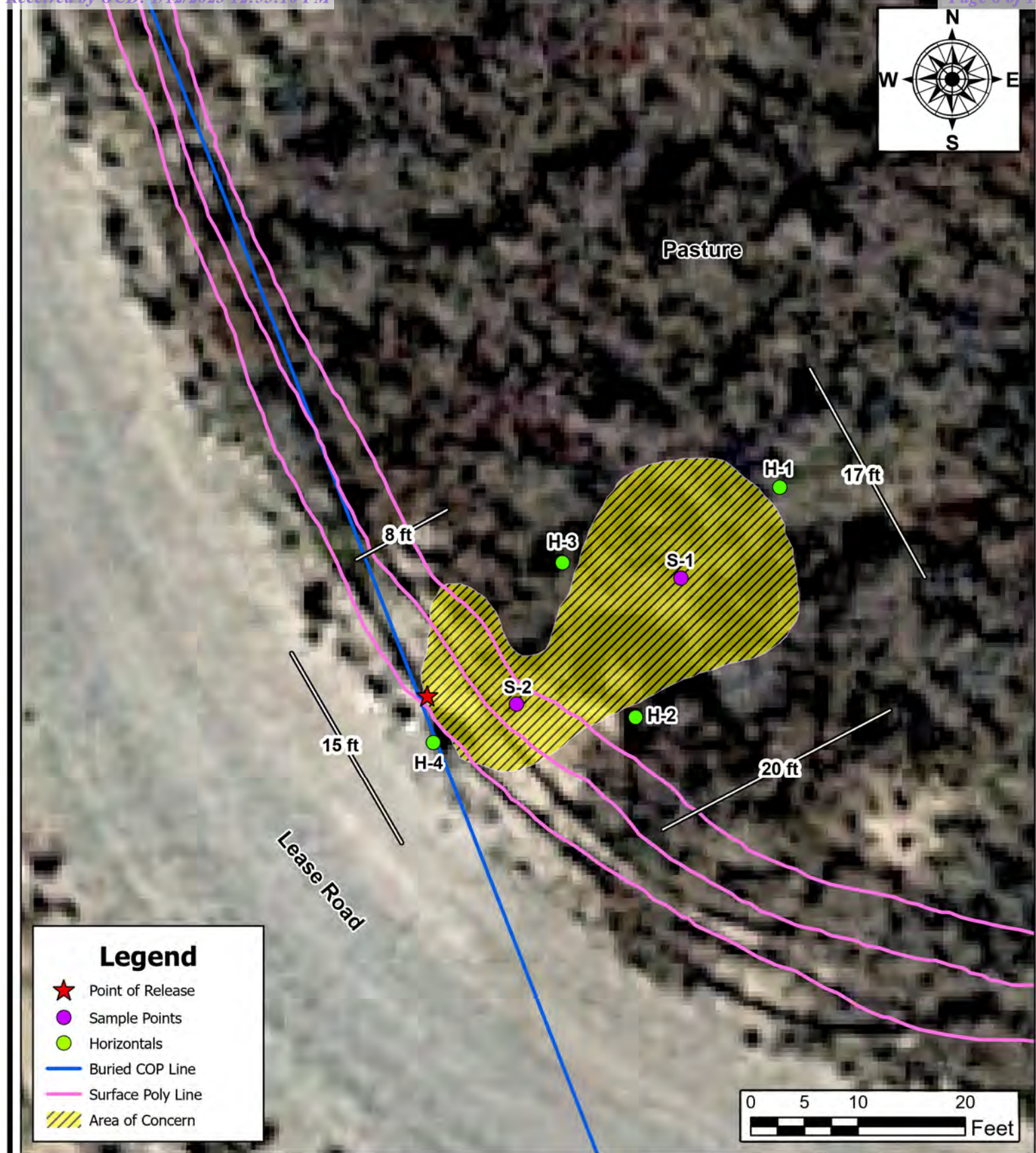
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 2

SHEET NUMBER:

1 of 1



**SAMPLE LOCATION MAP
COG OPERATING**

DIAMONDBACK 22 STATE COM 002H (07.09.22)
EDDY COUNTY, NEW MEXICO
32.032412, -104.080534

SCALE: As Shown

Date: 8/15/2022



Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

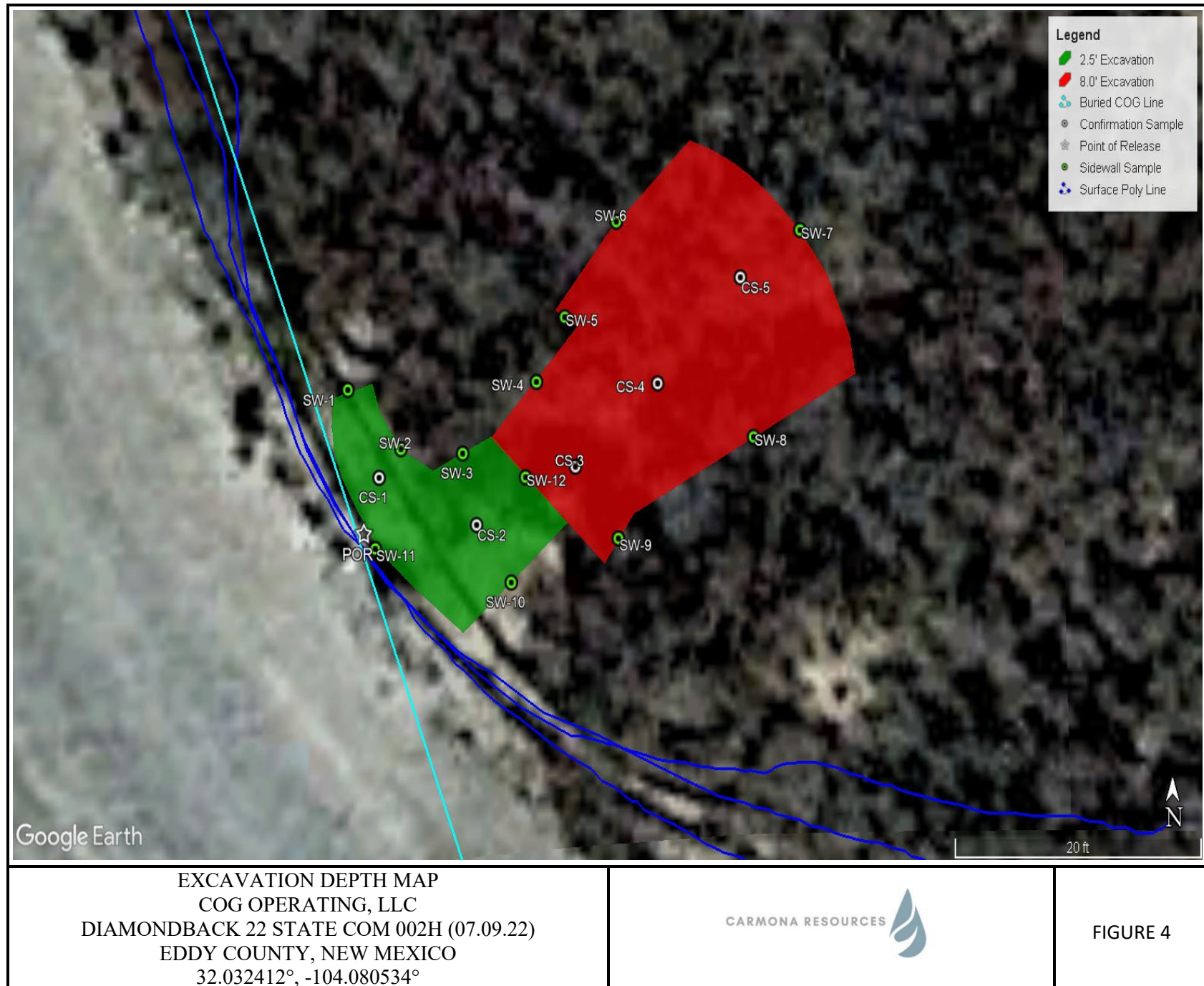
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1



APPENDIX A

CARMONA RESOURCES



Table 1
COG
Diamondback 22 State Com 002H (07.09.22)
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	7/21/2022	0-1'	2,120	3,580	385	6,090	2.18	16.0	5.95	36.1	60.2	684
	"	1.5'	1,490	2,120	201	3,810	9.27	72.9	11.6	110	196	756
	"	2.0'	1,230	1,820	179	3,230	11.3	64.8	13.1	106	189	14,300
	"	2.5'	1,800	2,370	255	4,430	14.9	107	24.7	158	305	14,700
	"	3.0'	2,600	3,370	331	6,300	17.7	106	19.8	162	306	14,400
	"	3.5'	3,370	4,400	471	8,240	32.4	129	29.8	169	360	13,500
S-2	7/21/2022	0-1'	321	3,230	321	3,870	<0.00202	0.00206	0.0101	0.208	0.220	5,460
	"	1.5'	<49.8	598	60.1	658	<0.00200	<0.00200	<0.00200	0.0228	0.0228	654
	"	2.0'	55.2	628	50.8	734	<0.00198	<0.00198	<0.00198	0.0356	0.0356	1,420
	"	2.5'	<49.8	75.1	<49.8	75.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	120
H-1	7/21/2022	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	13.2
H-2	7/21/2022	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	11.8
H-3	7/21/2022	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	11.5
H-4	7/21/2022	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.0
Regulatory Criteria^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(S) - Sample Point

(H) - Horizontal

 Removed

Table 2
COG
Diamondback 22 State Com 002H (07.09.22)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			GRO	DRO	MRO	Total							
CS-1	12/8/2022	2.5'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	27.3	
CS-2	12/8/2022	2.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	0.00602	0.00226	0.0221	0.0304	38.2	
CS-3	12/8/2022	8.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	0.00475	0.00354	0.0180	0.0263	16.7	
CS-4	12/8/2022	8.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	15.3	
CS-5	12/8/2022	8.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	14.1	
SW-1	12/8/2022	2.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	25.7	
SW-2	12/8/2022	2.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	20.2	
SW-3	12/8/2022	2.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	0.00216	0.00399	<0.00403	0.00948	13.6	
SW-4	12/8/2022	8.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	13.9	
SW-5	12/8/2022	8.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.4	
SW-6	12/8/2022	8.0'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.2	
SW-7	12/8/2022	8.0'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.6	
SW-8	12/8/2022	8.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	0.00228	0.00414	0.0127	0.0192	14.8	
SW-9	12/8/2022	8.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	15.1	
SW-10	12/8/2022	2.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	26.2	
SW-11	12/8/2022	2.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	18.1	
SW-12	12/8/2022	5.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	18.5	
Regulatory Criteria ^A							100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(CS) - Confirmation Sample

(SW) - Sidewall Sample

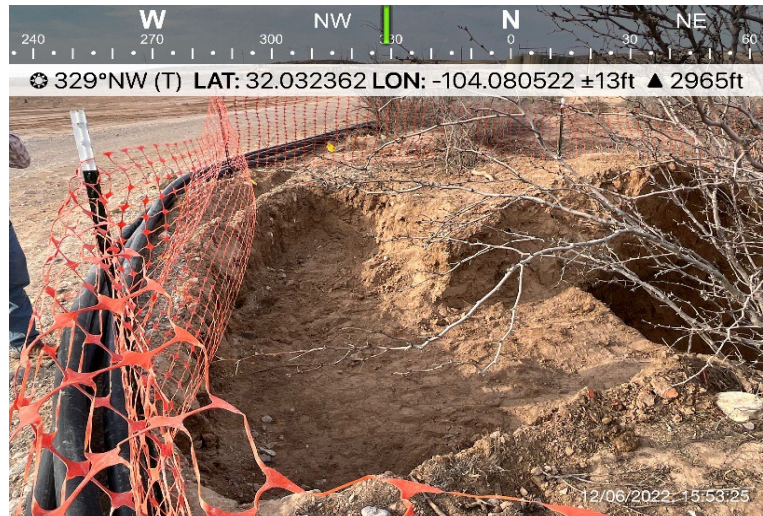
APPENDIX B

CARMONA RESOURCES

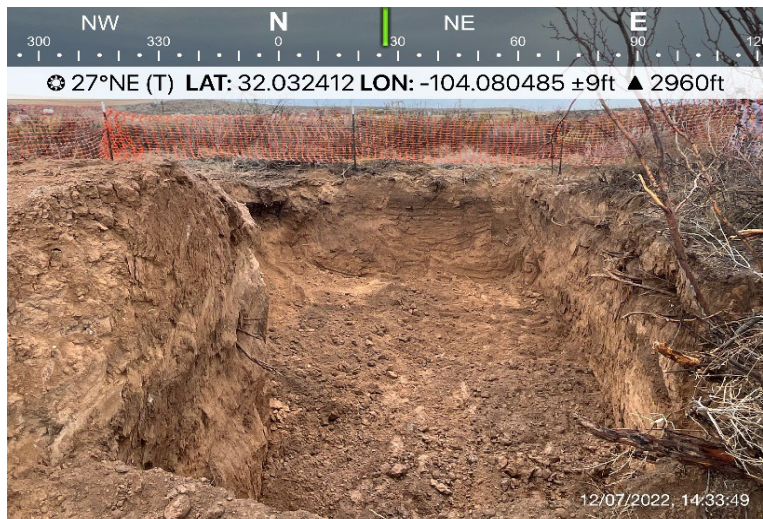


PHOTOGRAPHIC LOG**Concho Operating, LLC****Photograph No. 1****Facility:** Diamondback 22 State Com 002H
(07.09.22)**County:** Eddy County, New Mexico**Description:**

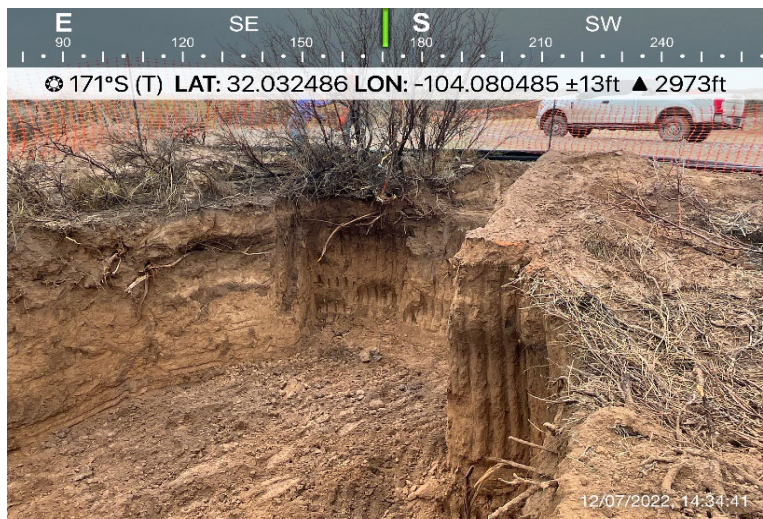
View Northwest, area of sample point (1-2).

**Photograph No. 2****Facility:** Diamondback 22 State Com 002H
(07.09.22)**County:** Eddy County, New Mexico**Description:**

View Northeast, area of sample point (3-5).

**Photograph No. 3****Facility:** Diamondback 22 State Com 002H
(07.09.22)**County:** Eddy County, New Mexico**Description:**

View South, area sample point (3-4)



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: _____

NAPP2220251441

L48 Spill Volume Estimate Form									
Facility Name & Number:		Diamondback 22-2							
Asset Area:		DBWN							
Release Discovery Date & Time:		7.9.22							
Release Type:		Produced Water							
Provide any known details about the event:		Poly line leak							
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.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	20.0	40.0	2.00	13.63%	23.733	3.235			
Rectangle B					0.000	0.000			
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:						3.235			

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 127878

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 127878
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/21/2022

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: 01/12/2023

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: Jocelyn Harimon Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 01/12/2023

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: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

From: Mike Carmona
Sent: Monday, December 5, 2022 9:56 AM
To: NMOCD Spill Notifications (OCD.Enviro@emnrd.nm.gov)
Cc: Harris, Jacqui; Conner Moehring
Subject: Diamondback 22 State Com 002H (07.09.22) Incident # NAPP2220251441- Sampling Notificaiton

Good Morning,

On behalf of COG, Carmona Resources will collect confirmation samples for the remediation at the below-referenced site on 12/08/22 around 7:00 a.m. Mountain Time. Please let me know if you have any questions.

Diamondback 22 State Com 002H (07.09.22)
Incident # NAPP2220251441
Eddy County, New Mexico
Unit D Sec 22 T26S R28E
32.032412°, -104.080534°

Mike J. Carmona
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

CARMONA RESOURCES



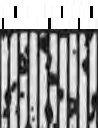
APPENDIX D

CARMONA RESOURCES



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Project Name :	<u>Diamondback 22 State 2H(08.30.2021)</u>	Date :	<u>November 16, 2021</u>
Project No. :	<u>214634</u>	Sampler :	<u>Clint Merritt</u>
Location :	<u>Eddy Co, New Mexico</u>	Driller :	<u>Scarborough Drilling</u>
Coordinates :	<u>32.03314°, -104.08201°</u>	Method :	<u>Air Rotary</u>
Elevation :	<u>2,991'</u>		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Yellowish Orange/White well graded gravel with <50% coarse sand and caliche (GW). Dry		50		(50') - Light brown soft clay with <50% fine loose sand (CL). Dry	
5		(5') - Light reddish brown loose, medium sand with <50% fine well cemented gravel (SW). Dry		55			
10		(10') - Light reddish brown/ white loose fine sand with <25% fine well cemented gravel (SW). Dry		60		(59') - Light brown soft clay with 50% fine loose sand (CL). Moist	
15				65			
20		(20') - Light brown loose fine sand with <25% fine poorly cemented gravel and trace gypsum (SM). Dry		70			
25		(25') - White fine very loose sand with 100% gypsum (ML). Dry		75			
30				80			
35				85			
40				90			
45				95			
50				100			

Comments : Total Depth 59' bgs
Drilling Terminated @ 14:00 CT No groundwater present

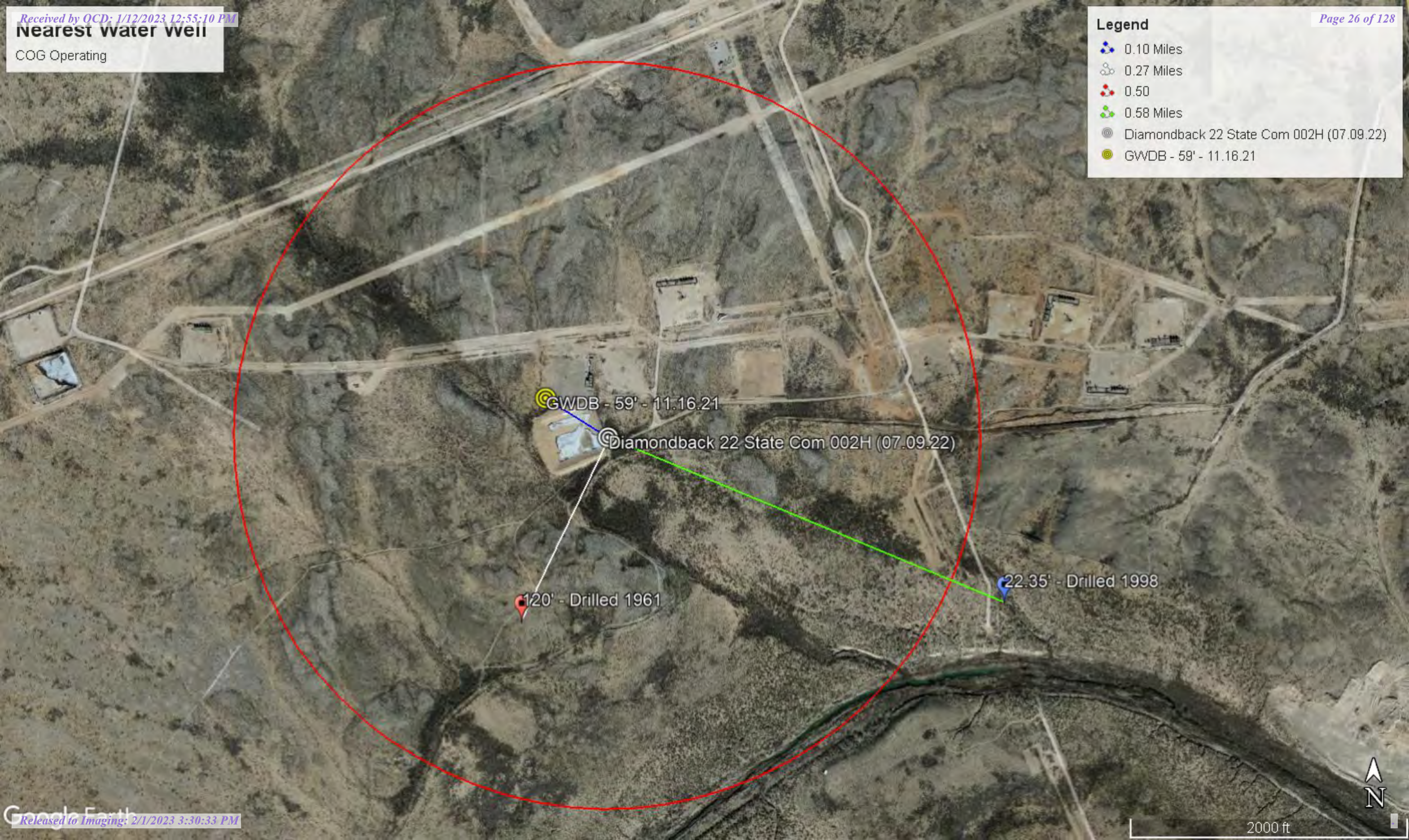
On 11/19/2021 No groundwater present

Nearest water well

COG Operating

Legend

- 0.10 Miles
- 0.27 Miles
- 0.50
- 0.58 Miles
- Diamondback 22 State Com 002H (07.09.22)
- GWDB - 59' - 11.16.21



High Karst

COG OPERATING

Legend

-  Diamondback 22 State Com 004H (04.11.22)
-  High
-  Medium

 Diamondback 22 State Com 004H (04.11.22)

US Hwy 285



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	Depth Well	Depth Water	Water Column
C 01668	CUB	ED		3	3	12	26S	28E		589957	3546554*	250	100	150
C 02160	CUB	ED		4	1	2	14	26S	28E	589243	3546044*	300	120	180
C 02160 S	CUB	ED		1	1	2	14	26S	28E	589043	3546244*	300	120	180
C 02160 S2	CUB	ED		1	1	2	14	26S	28E	589043	3546244*	300	120	180
C 02160 S3	CUB	ED		2	2	1	14	26S	28E	588834	3546241*	300	120	180
C 02160 S4	CUB	ED		2	2	1	14	26S	28E	588834	3546241*	300	120	180
C 02160 S5	CUB	ED		1	1	1	14	26S	28E	588225	3546237*	300	120	180
C 02160 S6	CUB	ED		3	3	1	14	26S	28E	588232	3545635*	300	120	180
C 02160 S7	CUB	ED		3	3	1	22	26S	28E	586638	3543998*	300	120	180
C 02160 S8	CUB	ED		2	3	3	12	26S	28E	590056	3546653*	200	120	80
C 02160 S9	CUB	ED		3	3	2	02	26S	28E	589020	3548868*	300	120	180
C 02477	CUB	ED		1	1	03	26S	28E		586687	3549347*	150		
C 02478	CUB	ED		2	1	05	26S	28E		583848	3549325*	100		
C 02479	CUB	ED		4	4	10	26S	28E		587909	3546534*	200		
C 02480	CUB	ED		4	4	10	26S	28E		587909	3546534*	150		
C 02481	CUB	ED		1	1	14	26S	28E		588326	3546138*	200		
C 02894	C	ED		2	2	3	12	26S	28E	590458	3547061*	240		
C 02924	C	ED		1	3	2	11	26S	28E	589032	3547451*			
C 04022 POD1	CUB	ED		4	4	2	15	26S	28E	588082	3545647	220	175	45
C 04022 POD2	CUB	ED		2	2	2	27	26S	28E	588106	3543082	250	145	105
C 04466 POD1	CUB	ED		3	3	2	29	26S	28E	584327	3542357	96	33	63

*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.

5/8/22 5:50 PM

Page 1 of 2

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Average Depth to Water: 118 feet

Minimum Depth: 33 feet

Maximum Depth: 175 feet

Record Count: 21

PLSS Search:

Township: 26S **Range:** 28E



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)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02160 S7	3	3	1	22	26S	28E	586638	3543998*
Driller License:		Driller Company:							
Driller Name:		HEMLER							
Drill Start Date:		Drill Finish Date:				Plug Date:			
Log File Date:		PCW Rev Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:				Depth Water:			
		300 feet				120 feet			

*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.

5/8/22 5:51 PM

POINT OF DIVERSION SUMMARY



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320145104041701

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

USGS 320145104041701 26S.28E.22.234431

Eddy County, New Mexico
Latitude 32°01'45", Longitude 104°04'17" NAD27
Land-surface elevation 2,980 feet above NGVD29
The depth of the well is 23.00 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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
1987-12-12			D	62610	2958.98	NGVD29	1		S	
1987-12-12			D	62611	2960.55	NAVD88	1		S	
1987-12-12			D	72019	21.02		1		S	
1998-01-22			D	62610	2957.65	NGVD29	1		S	
1998-01-22			D	62611	2959.22	NAVD88	1		S	
1998-01-22			D	72019	22.35		1		S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

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

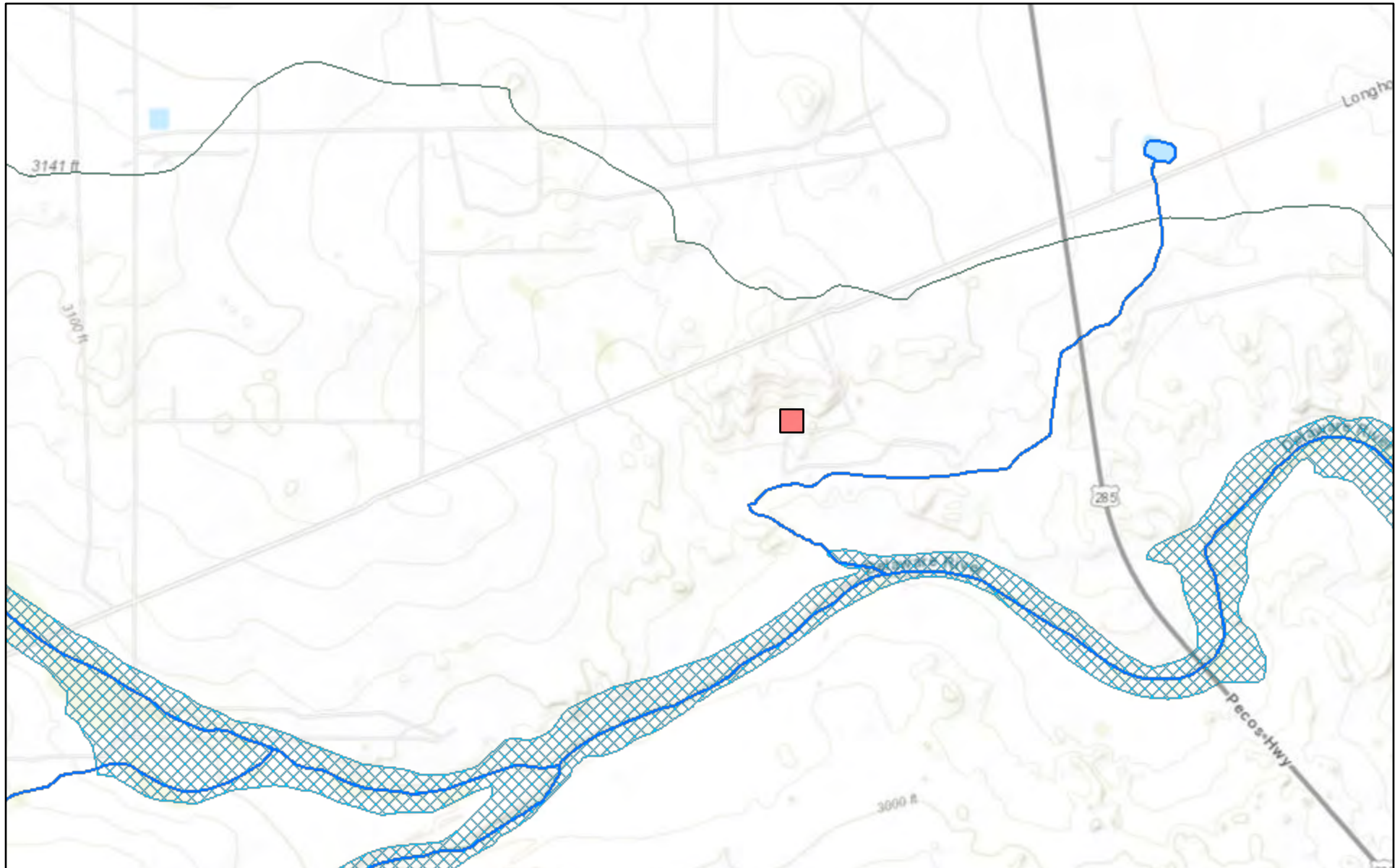
- [Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

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

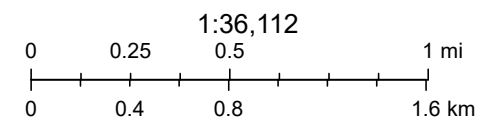


Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2022-05-08 19:52:11 EDT
0.27 0.24 nadww02

New Mexico NFHL Data



May 8, 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 America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-17262-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Diamondback

For:

Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Conner Moehring

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

7/27/2022 1:48:03 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: Diamondback

Laboratory Job ID: 880-17262-1
SDG: Eddy Co, NM

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Certification Summary	45
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Sample Summary	47
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Definitions/Glossary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.
□	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)

Definitions/Glossary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

- 1
- 2
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- 13
- 14

Case Narrative

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Job ID: 880-17262-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-17262-1**

Receipt

The samples were received on 7/22/2022 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-17262-1), S-1 (1.5') (880-17262-2), S-1 (2.0') (880-17262-3), S-1 (2.5') (880-17262-4), S-1 (3.0') (880-17262-5), S-1 (3.5') (880-17262-6) and S-2 (0-1') (880-17262-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30426 and analytical batch 880-30473 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30562 and analytical batch 880-30657 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (1.5') (880-17262-2), S-1 (2.0') (880-17262-3), S-1 (2.5') (880-17262-4), S-1 (3.0') (880-17262-5) and S-1 (3.5') (880-17262-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30709 and analytical batch 880-30747 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: The laboratory control sample (LCS) associated with preparation batch 880-30506 and analytical batch 880-30514 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.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-17259-A-1-K MS) and (880-17259-A-1-L MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-1 (0-1') (880-17262-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (3.0') (880-17262-5) and S-1 (3.5') (880-17262-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-17262-A-11-F MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30505 and analytical batch 880-30512 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.

Case Narrative

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Job ID: 880-17262-1 (Continued)

Laboratory: Eurofins Midland (Continued)

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30401 and analytical batch 880-30488 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30402 and analytical batch 880-30489 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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17262-1

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.18		0.0998		mg/Kg		07/22/22 15:06	07/23/22 21:00	50
Toluene	16.0		0.0998		mg/Kg		07/22/22 15:06	07/23/22 21:00	50
Ethylbenzene	5.95		0.0998		mg/Kg		07/22/22 15:06	07/23/22 21:00	50
m-Xylene & p-Xylene	28.7		0.200		mg/Kg		07/22/22 15:06	07/23/22 21:00	50
o-Xylene	7.35		0.0998		mg/Kg		07/22/22 15:06	07/23/22 21:00	50
Xylenes, Total	36.1		0.200		mg/Kg		07/22/22 15:06	07/23/22 21:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	254	S1+	70 - 130	07/22/22 15:06	07/23/22 21:00	50
1,4-Difluorobenzene (Surr)	99		70 - 130	07/22/22 15:06	07/23/22 21:00	50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	60.2		0.200		mg/Kg			07/25/22 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6090		49.9		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2120		49.9		mg/Kg		07/25/22 08:46	07/25/22 16:48	1
Diesel Range Organics (Over C10-C28)	3580		49.9		mg/Kg		07/25/22 08:46	07/25/22 16:48	1
Oil Range Organics (Over C28-C36)	385		49.9		mg/Kg		07/25/22 08:46	07/25/22 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	07/25/22 08:46	07/25/22 16:48	1
o-Terphenyl	97		70 - 130	07/25/22 08:46	07/25/22 16:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	684		5.00		mg/Kg			07/25/22 06:58	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17262-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.27		0.100		mg/Kg		07/22/22 15:06	07/23/22 21:20	50
Toluene	72.9		0.503		mg/Kg		07/26/22 09:25	07/26/22 18:32	250
Ethylbenzene	11.6		0.100		mg/Kg		07/22/22 15:06	07/23/22 21:20	50
m-Xylene & p-Xylene	85.4		1.01		mg/Kg		07/26/22 09:25	07/26/22 18:32	250
o-Xylene	17.0		0.100		mg/Kg		07/22/22 15:06	07/23/22 21:20	50
Xylenes, Total	110		1.01		mg/Kg		07/26/22 09:25	07/26/22 18:32	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	342	S1+	70 - 130	07/22/22 15:06	07/23/22 21:20	50
1,4-Difluorobenzene (Surr)	123		70 - 130	07/22/22 15:06	07/23/22 21:20	50

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17262-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	196		1.01		mg/Kg			07/25/22 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3810		49.9		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1490		49.9		mg/Kg		07/25/22 08:46	07/25/22 17:09	1
Diesel Range Organics (Over C10-C28)	2120		49.9		mg/Kg		07/25/22 08:46	07/25/22 17:09	1
Oil Range Organics (Over C28-C36)	201		49.9		mg/Kg		07/25/22 08:46	07/25/22 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				07/25/22 08:46	07/25/22 17:09	1
o-Terphenyl	92		70 - 130				07/25/22 08:46	07/25/22 17:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	756		4.95		mg/Kg			07/25/22 07:06	1

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-17262-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11.3		0.100		mg/Kg		07/22/22 15:06	07/23/22 21:41	50
Toluene	64.8		0.504		mg/Kg		07/26/22 09:25	07/26/22 18:53	250
Ethylbenzene	13.1		0.100		mg/Kg		07/22/22 15:06	07/23/22 21:41	50
m-Xylene & p-Xylene	81.7		1.01		mg/Kg		07/26/22 09:25	07/26/22 18:53	250
o-Xylene	18.2		0.100		mg/Kg		07/22/22 15:06	07/23/22 21:41	50
Xylenes, Total	106		1.01		mg/Kg		07/26/22 09:25	07/26/22 18:53	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	340	S1+	70 - 130				07/22/22 15:06	07/23/22 21:41	50
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130				07/22/22 15:06	07/23/22 21:41	50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	189		1.01		mg/Kg			07/25/22 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3230		50.0		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1230		50.0		mg/Kg		07/25/22 08:46	07/25/22 17:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-17262-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	1820		50.0		mg/Kg		07/25/22 08:46	07/25/22 17:31	1
Oil Range Organics (Over C28-C36)	179		50.0		mg/Kg		07/25/22 08:46	07/25/22 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				07/25/22 08:46	07/25/22 17:31	1
o-Terphenyl	91		70 - 130				07/25/22 08:46	07/25/22 17:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14300	F1	99.2		mg/Kg			07/25/22 07:51	20

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-17262-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14.9		0.499		mg/Kg		07/26/22 09:25	07/26/22 19:14	250
Toluene	107		1.99		mg/Kg		07/27/22 10:00	07/27/22 13:40	1000
Ethylbenzene	24.7		0.499		mg/Kg		07/26/22 09:25	07/26/22 19:14	250
m-Xylene & p-Xylene	121		0.998		mg/Kg		07/26/22 09:25	07/26/22 19:14	250
o-Xylene	37.2		0.499		mg/Kg		07/26/22 09:25	07/26/22 19:14	250
Xylenes, Total	158		0.998		mg/Kg		07/26/22 09:25	07/26/22 19:14	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	469	S1+	70 - 130				07/22/22 15:06	07/23/22 22:01	50
1,4-Difluorobenzene (Surr)	92		70 - 130				07/22/22 15:06	07/23/22 22:01	50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	305		0.998		mg/Kg			07/25/22 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4430		50.0		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1800		50.0		mg/Kg		07/25/22 08:46	07/25/22 17:52	1
Diesel Range Organics (Over C10-C28)	2370		50.0		mg/Kg		07/25/22 08:46	07/25/22 17:52	1
Oil Range Organics (Over C28-C36)	255		50.0		mg/Kg		07/25/22 08:46	07/25/22 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				07/25/22 08:46	07/25/22 17:52	1
o-Terphenyl	87		70 - 130				07/25/22 08:46	07/25/22 17:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-17262-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14700		100		mg/Kg			07/25/22 08:19	20

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-17262-5

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17.7		0.101		mg/Kg		07/22/22 15:06	07/23/22 22:22	50
Toluene	106		2.00		mg/Kg		07/27/22 10:00	07/27/22 14:00	1000
Ethylbenzene	19.8		0.101		mg/Kg		07/22/22 15:06	07/23/22 22:22	50
m-Xylene & p-Xylene	125		0.996		mg/Kg		07/26/22 09:25	07/26/22 19:34	250
o-Xylene	37.1		0.498		mg/Kg		07/26/22 09:25	07/26/22 19:34	250
Xylenes, Total	162		0.996		mg/Kg		07/26/22 09:25	07/26/22 19:34	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	386	S1+	70 - 130	07/22/22 15:06	07/23/22 22:22	50
1,4-Difluorobenzene (Surr)	116		70 - 130	07/22/22 15:06	07/23/22 22:22	50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	306		0.996		mg/Kg			07/25/22 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6300		49.9		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2600		49.9		mg/Kg		07/25/22 08:46	07/25/22 18:14	1
Diesel Range Organics (Over C10-C28)	3370		49.9		mg/Kg		07/25/22 08:46	07/25/22 18:14	1
Oil Range Organics (Over C28-C36)	331		49.9		mg/Kg		07/25/22 08:46	07/25/22 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	07/25/22 08:46	07/25/22 18:14	1
o-Terphenyl	83		70 - 130	07/25/22 08:46	07/25/22 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14400		100		mg/Kg			07/25/22 08:28	20

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-17262-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	32.4		0.495		mg/Kg		07/26/22 09:25	07/26/22 19:55	250
Toluene	129		1.99		mg/Kg		07/27/22 10:00	07/27/22 14:21	1000
Ethylbenzene	29.8		0.495		mg/Kg		07/26/22 09:25	07/26/22 19:55	250

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Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-17262-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	131		0.990		mg/Kg		07/26/22 09:25	07/26/22 19:55	250
o-Xylene	38.1		0.495		mg/Kg		07/26/22 09:25	07/26/22 19:55	250
Xylenes, Total	169		0.990		mg/Kg		07/26/22 09:25	07/26/22 19:55	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	463	S1+	70 - 130				07/22/22 15:06	07/23/22 22:42	50
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130				07/22/22 15:06	07/23/22 22:42	50

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	360		0.990		mg/Kg			07/25/22 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8240		50.0		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3370		50.0		mg/Kg		07/25/22 08:46	07/25/22 18:36	1
Diesel Range Organics (Over C10-C28)	4400		50.0		mg/Kg		07/25/22 08:46	07/25/22 18:36	1
Oil Range Organics (Over C28-C36)	471		50.0		mg/Kg		07/25/22 08:46	07/25/22 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	186	S1+	70 - 130				07/25/22 08:46	07/25/22 18:36	1
o-Terphenyl	99		70 - 130				07/25/22 08:46	07/25/22 18:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13500		99.4		mg/Kg			07/25/22 08:37	20

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

Lab Sample ID: 880-17262-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/22/22 15:06	07/23/22 19:58	1
Toluene	0.00206		0.00202		mg/Kg		07/22/22 15:06	07/23/22 19:58	1
Ethylbenzene	0.0101		0.00202		mg/Kg		07/22/22 15:06	07/23/22 19:58	1
m-Xylene & p-Xylene	0.132		0.00404		mg/Kg		07/22/22 15:06	07/23/22 19:58	1
o-Xylene	0.0763		0.00202		mg/Kg		07/22/22 15:06	07/23/22 19:58	1
Xylenes, Total	0.208		0.00404		mg/Kg		07/22/22 15:06	07/23/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				07/22/22 15:06	07/23/22 19:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/22/22 15:06	07/23/22 19:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.220		0.00404		mg/Kg			07/25/22 10:43	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17262-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3870		49.9		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	321		49.9		mg/Kg		07/25/22 08:46	07/25/22 18:57	1
Diesel Range Organics (Over C10-C28)	3230		49.9		mg/Kg		07/25/22 08:46	07/25/22 18:57	1
Oil Range Organics (Over C28-C36)	321		49.9		mg/Kg		07/25/22 08:46	07/25/22 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				07/25/22 08:46	07/25/22 18:57	1
o-Terphenyl	84		70 - 130				07/25/22 08:46	07/25/22 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5460		99.4		mg/Kg			07/25/22 08:47	20

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-17262-8

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/22/22 15:06	07/23/22 20:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/22/22 15:06	07/23/22 20:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/22/22 15:06	07/23/22 20:19	1
m-Xylene & p-Xylene	0.0105		0.00399		mg/Kg		07/22/22 15:06	07/23/22 20:19	1
o-Xylene	0.0123		0.00200		mg/Kg		07/22/22 15:06	07/23/22 20:19	1
Xylenes, Total	0.0228		0.00399		mg/Kg		07/22/22 15:06	07/23/22 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				07/22/22 15:06	07/23/22 20:19	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/22/22 15:06	07/23/22 20:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0228		0.00399		mg/Kg			07/25/22 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	658		49.8		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/25/22 08:46	07/25/22 19:19	1
Diesel Range Organics (Over C10-C28)	598		49.8		mg/Kg		07/25/22 08:46	07/25/22 19:19	1
Oil Range Organics (Over C28-C36)	60.1		49.8		mg/Kg		07/25/22 08:46	07/25/22 19:19	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-17262-8

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	07/25/22 08:46	07/25/22 19:19	1
o-Terphenyl	83		70 - 130	07/25/22 08:46	07/25/22 19:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	654		25.2		mg/Kg			07/25/22 09:14	5

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-17262-9

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/22/22 15:06	07/23/22 20:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/22/22 15:06	07/23/22 20:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/22/22 15:06	07/23/22 20:39	1
m-Xylene & p-Xylene	0.0216		0.00396		mg/Kg		07/22/22 15:06	07/23/22 20:39	1
o-Xylene	0.0140		0.00198		mg/Kg		07/22/22 15:06	07/23/22 20:39	1
Xylenes, Total	0.0356		0.00396		mg/Kg		07/22/22 15:06	07/23/22 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/22/22 15:06	07/23/22 20:39	1
1,4-Difluorobenzene (Surr)	83		70 - 130	07/22/22 15:06	07/23/22 20:39	1

Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0356		0.00396		mg/Kg			07/25/22 10:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	734		50.0		mg/Kg			07/25/22 16:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	55.2		50.0		mg/Kg		07/25/22 08:46	07/25/22 19:41	1
Diesel Range Organics (Over C10-C28)	628		50.0		mg/Kg		07/25/22 08:46	07/25/22 19:41	1
Oil Range Organics (Over C28-C36)	50.8		50.0		mg/Kg		07/25/22 08:46	07/25/22 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/25/22 08:46	07/25/22 19:41	1
o-Terphenyl	86		70 - 130	07/25/22 08:46	07/25/22 19:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1420		25.1		mg/Kg			07/25/22 09:24	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (2.5')

Lab Sample ID: 880-17262-10

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/23/22 18:30	07/24/22 19:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/23/22 18:30	07/24/22 19:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/23/22 18:30	07/24/22 19:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/23/22 18:30	07/24/22 19:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/23/22 18:30	07/24/22 19:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/23/22 18:30	07/24/22 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/23/22 18:30	07/24/22 19:20	1
1,4-Difluorobenzene (Surr)	83		70 - 130	07/23/22 18:30	07/24/22 19:20	1

Method: 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			07/25/22 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.1		49.8		mg/Kg			07/25/22 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/25/22 08:46	07/25/22 20:03	1
Diesel Range Organics (Over C10-C28)	75.1		49.8		mg/Kg		07/25/22 08:46	07/25/22 20:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/25/22 08:46	07/25/22 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	07/25/22 08:46	07/25/22 20:03	1
o-Terphenyl	74		70 - 130	07/25/22 08:46	07/25/22 20:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.98		mg/Kg			07/25/22 09:33	1

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

Lab Sample ID: 880-17262-11

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/23/22 18:30	07/24/22 19:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/23/22 18:30	07/24/22 19:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/23/22 18:30	07/24/22 19:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/23/22 18:30	07/24/22 19:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/23/22 18:30	07/24/22 19:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/23/22 18:30	07/24/22 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/23/22 18:30	07/24/22 19:41	1
1,4-Difluorobenzene (Surr)	78		70 - 130	07/23/22 18:30	07/24/22 19:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17262-11

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 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			07/25/22 10:43	1

Method: 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			07/25/22 16:54	1

Method: 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		07/25/22 12:08	07/25/22 21:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 12:08	07/25/22 21:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 12:08	07/25/22 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/25/22 12:08	07/25/22 21:51	1
o-Terphenyl	89		70 - 130				07/25/22 12:08	07/25/22 21:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		5.00		mg/Kg			07/25/22 09:42	1

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

Lab Sample ID: 880-17262-12

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/23/22 18:30	07/24/22 20:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/23/22 18:30	07/24/22 20:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				07/23/22 18:30	07/24/22 20:01	1
1,4-Difluorobenzene (Surr)	82		70 - 130				07/23/22 18:30	07/24/22 20:01	1

Method: 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			07/25/22 10:43	1

Method: 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			07/25/22 16:54	1

Method: 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		07/25/22 12:08	07/25/22 22:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/25/22 12:08	07/25/22 22:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17262-12

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 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		07/25/22 12:08	07/25/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/25/22 12:08	07/25/22 22:56	1
o-Terphenyl	83		70 - 130				07/25/22 12:08	07/25/22 22:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.8		5.05		mg/Kg			07/25/22 09:51	1

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

Lab Sample ID: 880-17262-13

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/23/22 18:30	07/24/22 20:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/23/22 18:30	07/24/22 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/23/22 18:30	07/24/22 20:22	1
1,4-Difluorobenzene (Surr)	81		70 - 130				07/23/22 18:30	07/24/22 20:22	1

Method: 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			07/25/22 10:43	1

Method: 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			07/25/22 16:54	1

Method: 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		07/25/22 08:52	07/25/22 15:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		07/25/22 08:52	07/25/22 15:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/25/22 08:52	07/25/22 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/25/22 08:52	07/25/22 15:25	1
o-Terphenyl	92		70 - 130				07/25/22 08:52	07/25/22 15:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5	F1	5.05		mg/Kg			07/25/22 10:00	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17262-14

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/23/22 18:30	07/24/22 20:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/23/22 18:30	07/24/22 20:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/23/22 18:30	07/24/22 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/23/22 18:30	07/24/22 20:42	1
1,4-Difluorobenzene (Surr)	81		70 - 130	07/23/22 18:30	07/24/22 20:42	1

Method: 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			07/25/22 10:43	1

Method: 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			07/25/22 16:54	1

Method: 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		07/25/22 08:52	07/25/22 15:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		07/25/22 08:52	07/25/22 15:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 08:52	07/25/22 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/25/22 08:52	07/25/22 15:46	1
o-Terphenyl	100		70 - 130	07/25/22 08:52	07/25/22 15:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		4.99		mg/Kg			07/25/22 10:28	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-17132-A-4-F MS	Matrix Spike	103	95
880-17132-A-4-G MSD	Matrix Spike Duplicate	110	96
880-17262-1	S-1 (0-1')	254 S1+	99
880-17262-2	S-1 (1.5')	342 S1+	123
880-17262-3	S-1 (2.0')	340 S1+	134 S1+
880-17262-4	S-1 (2.5')	469 S1+	92
880-17262-5	S-1 (3.0')	386 S1+	116
880-17262-6	S-1 (3.5')	463 S1+	62 S1-
880-17262-7	S-2 (0-1')	142 S1+	96
880-17262-8	S-2 (1.5')	119	76
880-17262-9	S-2 (2.0')	109	83
880-17262-10	S-2 (2.5')	96	83
880-17262-11	H-1 (0-0.5')	110	78
880-17262-12	H-2 (0-0.5')	101	82
880-17262-13	H-3 (0-0.5')	108	81
880-17262-14	H-4 (0-0.5')	111	81
880-17263-A-16-E MS	Matrix Spike	114	86
880-17263-A-16-F MSD	Matrix Spike Duplicate	115	94
880-17264-A-22-C MS	Matrix Spike	100	88
880-17264-A-22-D MSD	Matrix Spike Duplicate	101	96
880-17284-A-1-A MS	Matrix Spike	117	92
880-17284-A-1-B MSD	Matrix Spike Duplicate	121	93
890-2603-A-1-D MS	Matrix Spike	103	85
890-2603-A-1-E MSD	Matrix Spike Duplicate	107	92
LCS 880-30426/1-A	Lab Control Sample	106	100
LCS 880-30478/1-A	Lab Control Sample	106	98
LCS 880-30562/1-A	Lab Control Sample	106	94
LCS 880-30664/1-A	Lab Control Sample	105	95
LCS 880-30709/1-A	Lab Control Sample	110	99
LCSD 880-30426/2-A	Lab Control Sample Dup	101	99
LCSD 880-30478/2-A	Lab Control Sample Dup	105	97
LCSD 880-30562/2-A	Lab Control Sample Dup	104	94
LCSD 880-30664/2-A	Lab Control Sample Dup	108	98
LCSD 880-30709/2-A	Lab Control Sample Dup	104	95
MB 880-30426/5-A	Method Blank	94	86
MB 880-30478/5-A	Method Blank	98	86
MB 880-30562/5-A	Method Blank	90	84
MB 880-30664/5-A	Method Blank	100	87
MB 880-30709/5-A	Method Blank	101	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Carmona Resources

Job ID: 880-17262-1

Project/Site: Diamondback

SDG: Eddy Co, NM

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)
880-17258-A-1-C MS	Matrix Spike	85	82
880-17258-A-1-D MSD	Matrix Spike Duplicate	85	83
880-17259-A-1-K MS	Matrix Spike	74	66 S1-
880-17259-A-1-L MSD	Matrix Spike Duplicate	54 S1-	48 S1-
880-17262-1	S-1 (0-1')	131 S1+	97
880-17262-2	S-1 (1.5')	110	92
880-17262-3	S-1 (2.0')	109	91
880-17262-4	S-1 (2.5')	108	87
880-17262-5	S-1 (3.0')	142 S1+	83
880-17262-6	S-1 (3.5')	186 S1+	99
880-17262-7	S-2 (0-1')	106	84
880-17262-8	S-2 (1.5')	81	83
880-17262-9	S-2 (2.0')	92	86
880-17262-10	S-2 (2.5')	71	74
880-17262-11	H-1 (0-0.5')	85	89
880-17262-11 MS	H-1 (0-0.5')	69 S1-	64 S1-
880-17262-11 MSD	H-1 (0-0.5')	81	75
880-17262-12	H-2 (0-0.5')	84	83
880-17262-13	H-3 (0-0.5')	85	92
880-17262-14	H-4 (0-0.5')	92	100
LCS 880-30505/2-A	Lab Control Sample	92	89
LCS 880-30506/2-A	Lab Control Sample	110	111
LCS 880-30590/2-A	Lab Control Sample	98	95
LCSD 880-30505/3-A	Lab Control Sample Dup	87	87
LCSD 880-30506/3-A	Lab Control Sample Dup	122	126
LCSD 880-30590/3-A	Lab Control Sample Dup	95	95
MB 880-30505/1-A	Method Blank	111	125
MB 880-30506/1-A	Method Blank	94	111
MB 880-30590/1-A	Method Blank	99	113

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30426/5-A

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/22/22 15:06	07/23/22 14:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/22/22 15:06	07/23/22 14:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/22/22 15:06	07/23/22 14:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/22/22 15:06	07/23/22 14:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/22/22 15:06	07/23/22 14:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/22/22 15:06	07/23/22 14:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	07/22/22 15:06	07/23/22 14:49	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/22/22 15:06	07/23/22 14:49	1

Lab Sample ID: LCS 880-30426/1-A

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09901		mg/Kg		99	70 - 130
Toluene	0.100	0.09612		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-30426/2-A

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30426

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09549		mg/Kg		95	70 - 130	4	35
Toluene	0.100	0.09719		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.09922		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1970		mg/Kg		99	70 - 130	1	35
o-Xylene	0.100	0.1079		mg/Kg		108	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-17284-A-1-A MS

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0998	0.09670		mg/Kg		97	70 - 130
Toluene	<0.00202	U	0.0998	0.1062		mg/Kg		106	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17284-A-1-A MS

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.0998	0.1152		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.2364		mg/Kg		118	70 - 130
o-Xylene	<0.00202	U F1	0.0998	0.1311	F1	mg/Kg		131	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-17284-A-1-B MSD

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30426

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	0.1000		mg/Kg		100	70 - 130	3	35
Toluene	<0.00202	U	0.100	0.1059		mg/Kg		105	70 - 130	0	35
Ethylbenzene	<0.00202	U	0.100	0.1187		mg/Kg		118	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2431		mg/Kg		121	70 - 130	3	35
o-Xylene	<0.00202	U F1	0.100	0.1333	F1	mg/Kg		133	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-30478/5-A

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/23/22 18:30	07/24/22 14:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/23/22 18:30	07/24/22 14:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/23/22 18:30	07/24/22 14:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/23/22 18:30	07/24/22 14:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/23/22 18:30	07/24/22 14:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/23/22 18:30	07/24/22 14:29	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/23/22 18:30	07/24/22 14:29	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/23/22 18:30	07/24/22 14:29	1

Lab Sample ID: LCS 880-30478/1-A

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1098		mg/Kg		110	70 - 130
Toluene	0.100	0.1086		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1126		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2291		mg/Kg		115	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-30478/1-A

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1252		mg/Kg		125	70 - 130

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

Lab Sample ID: LCSD 880-30478/2-A

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30478

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1024		mg/Kg		102	70 - 130	7	35
Toluene	0.100	0.1005		mg/Kg		101	70 - 130	8	35
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2101		mg/Kg		105	70 - 130	9	35
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-17264-A-22-C MS

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30478

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.07613		mg/Kg		76	70 - 130
Toluene	<0.00200	U	0.100	0.08980		mg/Kg		89	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09841		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1966		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.100	0.1051		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-17264-A-22-D MSD

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30478

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.09261		mg/Kg		93	70 - 130	20	35
Toluene	<0.00200	U	0.0998	0.09185		mg/Kg		92	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0998	0.09454		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1915		mg/Kg		96	70 - 130	3	35
o-Xylene	<0.00200	U	0.0998	0.1034		mg/Kg		104	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17264-A-22-D MSD

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30478

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-30562/5-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30562

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/25/22 10:57	07/26/22 22:37	1	
Toluene	<0.00200	U	0.00200		mg/Kg		07/25/22 10:57	07/26/22 22:37	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/25/22 10:57	07/26/22 22:37	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/25/22 10:57	07/26/22 22:37	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/25/22 10:57	07/26/22 22:37	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/25/22 10:57	07/26/22 22:37	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				07/25/22 10:57	07/26/22 22:37	1	
1,4-Difluorobenzene (Surr)	84		70 - 130				07/25/22 10:57	07/26/22 22:37	1	

Lab Sample ID: LCS 880-30562/1-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30562

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09490		mg/Kg		95	70 - 130			
Toluene	0.100	0.09745		mg/Kg		97	70 - 130			
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130			
m-Xylene & p-Xylene	0.200	0.2002		mg/Kg		100	70 - 130			
o-Xylene	0.100	0.1107		mg/Kg		111	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	106		70 - 130							
1,4-Difluorobenzene (Surr)	94		70 - 130							

Lab Sample ID: LCSD 880-30562/2-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30562

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	6	35	
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	5	35	
Ethylbenzene	0.100	0.1039		mg/Kg		104	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.2077		mg/Kg		104	70 - 130	4	35	
o-Xylene	0.100	0.1145		mg/Kg		114	70 - 130	3	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	104		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-30562/2-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30562

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

Lab Sample ID: 890-2603-A-1-D MS

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30562

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1 F2	0.101	0.03049	F1	mg/Kg		30	70 - 130	
Toluene	<0.00201	U F1 F2	0.101	0.03834	F1	mg/Kg		37	70 - 130	
Ethylbenzene	<0.00201	U F1 F2	0.101	0.01617	F1	mg/Kg		16	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.202	0.08284	F1	mg/Kg		40	70 - 130	
o-Xylene	<0.00201	U F1 F2	0.101	0.04972	F1	mg/Kg		49	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-2603-A-1-E MSD

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30562

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U F1 F2	0.100	0.07677	F2	mg/Kg		77	70 - 130	86	35	
Toluene	<0.00201	U F1 F2	0.100	0.08242	F2	mg/Kg		81	70 - 130	73	35	
Ethylbenzene	<0.00201	U F1 F2	0.100	0.08472	F2	mg/Kg		85	70 - 130	136	35	
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1719	F2	mg/Kg		85	70 - 130	70	35	
o-Xylene	<0.00201	U F1 F2	0.100	0.09434	F2	mg/Kg		94	70 - 130	62	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-30664/5-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30664

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/22 09:25	07/26/22 12:01	1	
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/22 09:25	07/26/22 12:01	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/22 09:25	07/26/22 12:01	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/26/22 09:25	07/26/22 12:01	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/22 09:25	07/26/22 12:01	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/26/22 09:25	07/26/22 12:01	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	100		70 - 130	07/26/22 09:25	07/26/22 12:01	1				
1,4-Difluorobenzene (Surr)	87		70 - 130	07/26/22 09:25	07/26/22 12:01	1				

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-30664/1-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09358		mg/Kg		94	70 - 130
Toluene	0.100	0.09382		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09803		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1983		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-30664/2-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30664

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09765		mg/Kg		98	70 - 130	4	35
Toluene	0.100	0.09676		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2052		mg/Kg		103	70 - 130	3	35
o-Xylene	0.100	0.1117		mg/Kg		112	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-17132-A-4-F MS

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08215		mg/Kg		82	70 - 130
Toluene	<0.00201	U	0.100	0.07761		mg/Kg		77	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.07428		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1476		mg/Kg		74	70 - 130
o-Xylene	<0.00201	U	0.100	0.08083		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-17132-A-4-G MSD

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.08953		mg/Kg		90	70 - 130	9	35
Toluene	<0.00201	U	0.0998	0.08606		mg/Kg		85	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.0998	0.08275		mg/Kg		83	70 - 130	11	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17132-A-4-G MSD

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1653		mg/Kg		83	70 - 130	11	35
o-Xylene	<0.00201	U	0.0998	0.09102		mg/Kg		91	70 - 130	12	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	96		70 - 130								

Lab Sample ID: MB 880-30709/5-A

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/27/22 08:00	07/27/22 10:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/27/22 08:00	07/27/22 10:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/27/22 08:00	07/27/22 10:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/27/22 08:00	07/27/22 10:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/27/22 08:00	07/27/22 10:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/27/22 08:00	07/27/22 10:54	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				07/27/22 08:00	07/27/22 10:54	1
1,4-Difluorobenzene (Surr)	84		70 - 130				07/27/22 08:00	07/27/22 10:54	1

Lab Sample ID: LCS 880-30709/1-A

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.09414		mg/Kg		94	70 - 130		
Toluene	0.100	0.09289		mg/Kg		93	70 - 130		
Ethylbenzene	0.100	0.09941		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene	0.200	0.1985		mg/Kg		99	70 - 130		
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: LCSD 880-30709/2-A

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30709

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09253		mg/Kg		93	70 - 130	2	35
Toluene	0.100	0.09148		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.09626		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1928		mg/Kg		96	70 - 130	3	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	3	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-17263-A-16-E MS

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0998	0.03151	F1	mg/Kg		32	70 - 130
Toluene	<0.00199	U F1	0.0998	0.03037	F1	mg/Kg		30	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.02646	F1	mg/Kg		27	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.03952	F1	mg/Kg		20	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.02829	F1	mg/Kg		28	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-17263-A-16-F MSD

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0994	0.03891	F1	mg/Kg		39	70 - 130	21	35
Toluene	<0.00199	U F1	0.0994	0.03672	F1	mg/Kg		37	70 - 130	19	35
Ethylbenzene	<0.00199	U F1	0.0994	0.03381	F1	mg/Kg		34	70 - 130	24	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.06725	F1 F2	mg/Kg		34	70 - 130	52	35
o-Xylene	<0.00199	U F1	0.0994	0.03668	F1	mg/Kg		37	70 - 130	26	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-30505/1-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30505

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		07/25/22 08:46	07/25/22 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 11:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 08:46	07/25/22 11:04	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	111		70 - 130	07/25/22 08:46	07/25/22 11:04	1			
o-Terphenyl	125		70 - 130	07/25/22 08:46	07/25/22 11:04	1			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-30505/2-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30505

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	946.1		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1149		mg/Kg		115	70 - 130		

Lab Sample ID: LCSD 880-30505/3-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30505

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	907.5		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1081		mg/Kg		108	70 - 130	6	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: 880-17259-A-1-K MS

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30505

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1000	713.3	F1	mg/Kg		67	70 - 130		
Diesel Range Organics (Over C10-C28)	56.0	F2 F1	1000	728.6	F1	mg/Kg		67	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	74		70 - 130								
o-Terphenyl	66	S1-	70 - 130								

Lab Sample ID: 880-17259-A-1-L MSD

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30505

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	693.1	F1	mg/Kg		65	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	56.0	F2 F1	999	533.6	F1 F2	mg/Kg		48	70 - 130	31	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	54	S1-	70 - 130								

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17259-A-1-L MSD

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30505

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	48	S1-	70 - 130

Lab Sample ID: MB 880-30506/1-A

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30506

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/25/22 08:52	07/25/22 11:08	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 08:52	07/25/22 11:08	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 08:52	07/25/22 11:08	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	94		70 - 130				07/25/22 08:52	07/25/22 11:08	1	
<i>o</i> -Terphenyl	111		70 - 130				07/25/22 08:52	07/25/22 11:08	1	

Lab Sample ID: LCS 880-30506/2-A

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30506

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1154		mg/Kg		115	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	110		70 - 130							
<i>o</i> -Terphenyl	111		70 - 130							

Lab Sample ID: LCSD 880-30506/3-A

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30506

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1152		mg/Kg		115	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1374	*+	mg/Kg		137	70 - 130	17	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	122		70 - 130								
o-Terphenyl	126		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17258-A-1-C MS

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30506

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	1000	1040		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *	1000	867.9		mg/Kg		85	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	85		70 - 130						
o-Terphenyl	82		70 - 130						

Lab Sample ID: 880-17258-A-1-D MSD

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30506

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	999	1053		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U *	999	880.0		mg/Kg		86	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: MB 880-30590/1-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30590

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		07/25/22 12:08	07/25/22 20:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/22 12:08	07/25/22 20:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/22 12:08	07/25/22 20:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/25/22 12:08	07/25/22 20:46	1
o-Terphenyl	113		70 - 130				07/25/22 12:08	07/25/22 20:46	1

Lab Sample ID: LCS 880-30590/2-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1137		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1051		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-30590/2-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30590

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-30590/3-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30590

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130	4	20

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

Lab Sample ID: 880-17262-11 MS

Matrix: Solid

Analysis Batch: 30512

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

Prep Type: Total/NA

Prep Batch: 30590

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	<50.0	U	1000	957.8		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	765.6		mg/Kg		74	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	64	S1-	70 - 130

Lab Sample ID: 880-17262-11 MSD

Matrix: Solid

Analysis Batch: 30512

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

Prep Type: Total/NA

Prep Batch: 30590

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	999	892.4		mg/Kg		87	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	920.8		mg/Kg		90	70 - 130	18	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	75		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30401/1-A

Matrix: Solid

Analysis Batch: 30488

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			07/25/22 03:11	1

Lab Sample ID: LCS 880-30401/2-A

Matrix: Solid

Analysis Batch: 30488

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-30401/3-A

Matrix: Solid

Analysis Batch: 30488

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	269.8		mg/Kg		108	90 - 110	2	20

Lab Sample ID: 880-17260-A-11-F MS

Matrix: Solid

Analysis Batch: 30488

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	897	F1	250	1110	F1	mg/Kg		85	90 - 110

Lab Sample ID: 880-17260-A-11-G MSD

Matrix: Solid

Analysis Batch: 30488

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	897	F1	250	1109	F1	mg/Kg		85	90 - 110	0	20

Lab Sample ID: MB 880-30402/1-A

Matrix: Solid

Analysis Batch: 30489

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			07/25/22 07:24	1

Lab Sample ID: LCS 880-30402/2-A

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	270.4		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-30402/3-A

Matrix: Solid

Analysis Batch: 30489

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	264.5		mg/Kg		106	90 - 110	2	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-17262-3 MS

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: S-1 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	14300	F1	4960	21420	F1	mg/Kg		144	90 - 110		

Lab Sample ID: 880-17262-3 MSD

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: S-1 (2.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14300	F1	4960	21470	F1	mg/Kg		145	90 - 110	0	20

Lab Sample ID: 880-17262-13 MS

Matrix: Solid

Analysis Batch: 30489

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11.5	F1	253	317.6	F1	mg/Kg		121	90 - 110		

Lab Sample ID: 880-17262-13 MSD

Matrix: Solid

Analysis Batch: 30489

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.5	F1	253	316.5	F1	mg/Kg		121	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 30426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-1	S-1 (0-1')	Total/NA	Solid	5035	
880-17262-2	S-1 (1.5')	Total/NA	Solid	5035	
880-17262-3	S-1 (2.0')	Total/NA	Solid	5035	
880-17262-4	S-1 (2.5')	Total/NA	Solid	5035	
880-17262-5	S-1 (3.0')	Total/NA	Solid	5035	
880-17262-6	S-1 (3.5')	Total/NA	Solid	5035	
880-17262-7	S-2 (0-1')	Total/NA	Solid	5035	
880-17262-8	S-2 (1.5')	Total/NA	Solid	5035	
880-17262-9	S-2 (2.0')	Total/NA	Solid	5035	
MB 880-30426/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30426/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30426/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17284-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-17284-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-1	S-1 (0-1')	Total/NA	Solid	8021B	30426
880-17262-2	S-1 (1.5')	Total/NA	Solid	8021B	30426
880-17262-3	S-1 (2.0')	Total/NA	Solid	8021B	30426
880-17262-4	S-1 (2.5')	Total/NA	Solid	8021B	30426
880-17262-5	S-1 (3.0')	Total/NA	Solid	8021B	30426
880-17262-6	S-1 (3.5')	Total/NA	Solid	8021B	30426
880-17262-7	S-2 (0-1')	Total/NA	Solid	8021B	30426
880-17262-8	S-2 (1.5')	Total/NA	Solid	8021B	30426
880-17262-9	S-2 (2.0')	Total/NA	Solid	8021B	30426
MB 880-30426/5-A	Method Blank	Total/NA	Solid	8021B	30426
LCS 880-30426/1-A	Lab Control Sample	Total/NA	Solid	8021B	30426
LCSD 880-30426/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30426
880-17284-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	30426
880-17284-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30426

Prep Batch: 30478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-10	S-2 (2.5')	Total/NA	Solid	5035	
880-17262-11	H-1 (0-0.5')	Total/NA	Solid	5035	
880-17262-12	H-2 (0-0.5')	Total/NA	Solid	5035	
880-17262-13	H-3 (0-0.5')	Total/NA	Solid	5035	
880-17262-14	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-30478/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30478/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30478/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17264-A-22-C MS	Matrix Spike	Total/NA	Solid	5035	
880-17264-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-10	S-2 (2.5')	Total/NA	Solid	8021B	30478
880-17262-11	H-1 (0-0.5')	Total/NA	Solid	8021B	30478
880-17262-12	H-2 (0-0.5')	Total/NA	Solid	8021B	30478
880-17262-13	H-3 (0-0.5')	Total/NA	Solid	8021B	30478

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 30484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-14	H-4 (0-0.5')	Total/NA	Solid	8021B	30478
MB 880-30478/5-A	Method Blank	Total/NA	Solid	8021B	30478
LCS 880-30478/1-A	Lab Control Sample	Total/NA	Solid	8021B	30478
LCSD 880-30478/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30478
880-17264-A-22-C MS	Matrix Spike	Total/NA	Solid	8021B	30478
880-17264-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30478

Analysis Batch: 30550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-17262-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-17262-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-17262-4	S-1 (2.5')	Total/NA	Solid	Total BTEX	
880-17262-5	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-17262-6	S-1 (3.5')	Total/NA	Solid	Total BTEX	
880-17262-7	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-17262-8	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-17262-9	S-2 (2.0')	Total/NA	Solid	Total BTEX	
880-17262-10	S-2 (2.5')	Total/NA	Solid	Total BTEX	
880-17262-11	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-17262-12	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-17262-13	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-17262-14	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

Prep Batch: 30562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-30562/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30562/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30562/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2603-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2603-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-2	S-1 (1.5')	Total/NA	Solid	8021B	30664
880-17262-3	S-1 (2.0')	Total/NA	Solid	8021B	30664
880-17262-4	S-1 (2.5')	Total/NA	Solid	8021B	30664
880-17262-5	S-1 (3.0')	Total/NA	Solid	8021B	30664
880-17262-6	S-1 (3.5')	Total/NA	Solid	8021B	30664
MB 880-30562/5-A	Method Blank	Total/NA	Solid	8021B	30562
MB 880-30664/5-A	Method Blank	Total/NA	Solid	8021B	30664
LCS 880-30562/1-A	Lab Control Sample	Total/NA	Solid	8021B	30562
LCS 880-30664/1-A	Lab Control Sample	Total/NA	Solid	8021B	30664
LCSD 880-30562/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30562
LCSD 880-30664/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30664
880-17132-A-4-F MS	Matrix Spike	Total/NA	Solid	8021B	30664
880-17132-A-4-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30664
890-2603-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	30562
890-2603-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30562

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 30664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-2	S-1 (1.5')	Total/NA	Solid	5035	
880-17262-3	S-1 (2.0')	Total/NA	Solid	5035	
880-17262-4	S-1 (2.5')	Total/NA	Solid	5035	
880-17262-5	S-1 (3.0')	Total/NA	Solid	5035	
880-17262-6	S-1 (3.5')	Total/NA	Solid	5035	
MB 880-30664/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30664/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30664/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17132-A-4-F MS	Matrix Spike	Total/NA	Solid	5035	
880-17132-A-4-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 30709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-4	S-1 (2.5')	Total/NA	Solid	5035	
880-17262-5	S-1 (3.0')	Total/NA	Solid	5035	
880-17262-6	S-1 (3.5')	Total/NA	Solid	5035	
MB 880-30709/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30709/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30709/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17263-A-16-E MS	Matrix Spike	Total/NA	Solid	5035	
880-17263-A-16-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-4	S-1 (2.5')	Total/NA	Solid	8021B	30709
880-17262-5	S-1 (3.0')	Total/NA	Solid	8021B	30709
880-17262-6	S-1 (3.5')	Total/NA	Solid	8021B	30709
MB 880-30709/5-A	Method Blank	Total/NA	Solid	8021B	30709
LCS 880-30709/1-A	Lab Control Sample	Total/NA	Solid	8021B	30709
LCSD 880-30709/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30709
880-17263-A-16-E MS	Matrix Spike	Total/NA	Solid	8021B	30709
880-17263-A-16-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30709

GC Semi VOA

Prep Batch: 30505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-17262-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-17262-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-17262-4	S-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-17262-5	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-17262-6	S-1 (3.5')	Total/NA	Solid	8015NM Prep	
880-17262-7	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-17262-8	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-17262-9	S-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-17262-10	S-2 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-30505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17259-A-1-K MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 30505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17259-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 30506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-13	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-17262-14	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-30506/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30506/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30506/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17258-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17258-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-1	S-1 (0-1')	Total/NA	Solid	8015B NM	30505
880-17262-2	S-1 (1.5')	Total/NA	Solid	8015B NM	30505
880-17262-3	S-1 (2.0')	Total/NA	Solid	8015B NM	30505
880-17262-4	S-1 (2.5')	Total/NA	Solid	8015B NM	30505
880-17262-5	S-1 (3.0')	Total/NA	Solid	8015B NM	30505
880-17262-6	S-1 (3.5')	Total/NA	Solid	8015B NM	30505
880-17262-7	S-2 (0-1')	Total/NA	Solid	8015B NM	30505
880-17262-8	S-2 (1.5')	Total/NA	Solid	8015B NM	30505
880-17262-9	S-2 (2.0')	Total/NA	Solid	8015B NM	30505
880-17262-10	S-2 (2.5')	Total/NA	Solid	8015B NM	30505
880-17262-11	H-1 (0-0.5')	Total/NA	Solid	8015B NM	30590
880-17262-12	H-2 (0-0.5')	Total/NA	Solid	8015B NM	30590
MB 880-30505/1-A	Method Blank	Total/NA	Solid	8015B NM	30505
MB 880-30590/1-A	Method Blank	Total/NA	Solid	8015B NM	30590
LCS 880-30505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30505
LCS 880-30590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30590
LCSD 880-30505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30505
LCSD 880-30590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30590
880-17259-A-1-K MS	Matrix Spike	Total/NA	Solid	8015B NM	30505
880-17259-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	30505
880-17262-11 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	30590
880-17262-11 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	30590

Analysis Batch: 30514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-13	H-3 (0-0.5')	Total/NA	Solid	8015B NM	30506
880-17262-14	H-4 (0-0.5')	Total/NA	Solid	8015B NM	30506
MB 880-30506/1-A	Method Blank	Total/NA	Solid	8015B NM	30506
LCS 880-30506/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30506
LCSD 880-30506/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30506
880-17258-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	30506
880-17258-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	30506

Prep Batch: 30590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-11	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-17262-12	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 30590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-30590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17262-11 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-17262-11 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-17262-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-17262-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-17262-4	S-1 (2.5')	Total/NA	Solid	8015 NM	
880-17262-5	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-17262-6	S-1 (3.5')	Total/NA	Solid	8015 NM	
880-17262-7	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-17262-8	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-17262-9	S-2 (2.0')	Total/NA	Solid	8015 NM	
880-17262-10	S-2 (2.5')	Total/NA	Solid	8015 NM	
880-17262-11	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-17262-12	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-17262-13	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-17262-14	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 30401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-17262-2	S-1 (1.5')	Soluble	Solid	DI Leach	
MB 880-30401/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30401/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30401/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17260-A-11-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17260-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 30402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-3	S-1 (2.0')	Soluble	Solid	DI Leach	
880-17262-4	S-1 (2.5')	Soluble	Solid	DI Leach	
880-17262-5	S-1 (3.0')	Soluble	Solid	DI Leach	
880-17262-6	S-1 (3.5')	Soluble	Solid	DI Leach	
880-17262-7	S-2 (0-1')	Soluble	Solid	DI Leach	
880-17262-8	S-2 (1.5')	Soluble	Solid	DI Leach	
880-17262-9	S-2 (2.0')	Soluble	Solid	DI Leach	
880-17262-10	S-2 (2.5')	Soluble	Solid	DI Leach	
880-17262-11	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-17262-12	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-17262-13	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-17262-14	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-30402/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-30402/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 30402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-30402/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17262-3 MS	S-1 (2.0')	Soluble	Solid	DI Leach	
880-17262-3 MSD	S-1 (2.0')	Soluble	Solid	DI Leach	
880-17262-13 MS	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-17262-13 MSD	H-3 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 30488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-1	S-1 (0-1')	Soluble	Solid	300.0	30401
880-17262-2	S-1 (1.5')	Soluble	Solid	300.0	30401
MB 880-30401/1-A	Method Blank	Soluble	Solid	300.0	30401
LCS 880-30401/2-A	Lab Control Sample	Soluble	Solid	300.0	30401
LCSD 880-30401/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30401
880-17260-A-11-F MS	Matrix Spike	Soluble	Solid	300.0	30401
880-17260-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	30401

Analysis Batch: 30489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17262-3	S-1 (2.0')	Soluble	Solid	300.0	30402
880-17262-4	S-1 (2.5')	Soluble	Solid	300.0	30402
880-17262-5	S-1 (3.0')	Soluble	Solid	300.0	30402
880-17262-6	S-1 (3.5')	Soluble	Solid	300.0	30402
880-17262-7	S-2 (0-1')	Soluble	Solid	300.0	30402
880-17262-8	S-2 (1.5')	Soluble	Solid	300.0	30402
880-17262-9	S-2 (2.0')	Soluble	Solid	300.0	30402
880-17262-10	S-2 (2.5')	Soluble	Solid	300.0	30402
880-17262-11	H-1 (0-0.5')	Soluble	Solid	300.0	30402
880-17262-12	H-2 (0-0.5')	Soluble	Solid	300.0	30402
880-17262-13	H-3 (0-0.5')	Soluble	Solid	300.0	30402
880-17262-14	H-4 (0-0.5')	Soluble	Solid	300.0	30402
MB 880-30402/1-A	Method Blank	Soluble	Solid	300.0	30402
LCS 880-30402/2-A	Lab Control Sample	Soluble	Solid	300.0	30402
LCSD 880-30402/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30402
880-17262-3 MS	S-1 (2.0')	Soluble	Solid	300.0	30402
880-17262-3 MSD	S-1 (2.0')	Soluble	Solid	300.0	30402
880-17262-13 MS	H-3 (0-0.5')	Soluble	Solid	300.0	30402
880-17262-13 MSD	H-3 (0-0.5')	Soluble	Solid	300.0	30402

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-17262-1

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	30473	07/23/22 21:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30401	07/22/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			30488	07/25/22 06:58	CH	XEN MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17262-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	30473	07/23/22 21:20	MR	XEN MID
Total/NA	Prep	5035			4.97 g	5 mL	30664	07/26/22 09:25	MR	XEN MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	30657	07/26/22 18:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30401	07/22/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			30488	07/25/22 07:06	CH	XEN MID

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-17262-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	30473	07/23/22 21:41	MR	XEN MID
Total/NA	Prep	5035			4.96 g	5 mL	30664	07/26/22 09:25	MR	XEN MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	30657	07/26/22 18:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		20			30489	07/25/22 07:51	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-17262-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	30473	07/23/22 22:01	MR	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	30664	07/26/22 09:25	MR	XEN MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	30657	07/26/22 19:14	MR	XEN MID
Total/NA	Prep	5035			5.03 g	5 mL	30709	07/27/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	30747	07/27/22 13:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		20			30489	07/25/22 08:19	CH	XEN MID

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-17262-5

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	30473	07/23/22 22:22	MR	XEN MID
Total/NA	Prep	5035			5.02 g	5 mL	30664	07/26/22 09:25	MR	XEN MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	30657	07/26/22 19:34	MR	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	30709	07/27/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	30747	07/27/22 14:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		20			30489	07/25/22 08:28	CH	XEN MID

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-17262-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	30473	07/23/22 22:42	MR	XEN MID
Total/NA	Prep	5035			5.05 g	5 mL	30664	07/26/22 09:25	MR	XEN MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	30657	07/26/22 19:55	MR	XEN MID
Total/NA	Prep	5035			5.02 g	5 mL	30709	07/27/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	30747	07/27/22 14:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-17262-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 18:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		20			30489	07/25/22 08:37	CH	XEN MID

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

Lab Sample ID: 880-17262-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30473	07/23/22 19:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		20			30489	07/25/22 08:47	CH	XEN MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-17262-8

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30473	07/23/22 20:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 19:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		5			30489	07/25/22 09:14	CH	XEN MID

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-17262-9

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30426	07/22/22 15:06	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30473	07/23/22 20:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 19:41	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-17262-9

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		5			30489	07/25/22 09:24	CH	XEN MID

Client Sample ID: S-2 (2.5')

Lab Sample ID: 880-17262-10

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.978 g	5 mL	30478	07/23/22 18:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30484	07/24/22 19:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	30505	07/25/22 08:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 20:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		1			30489	07/25/22 09:33	CH	XEN MID

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

Lab Sample ID: 880-17262-11

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30478	07/23/22 18:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30484	07/24/22 19:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30590	07/25/22 12:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 21:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		1			30489	07/25/22 09:42	CH	XEN MID

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

Lab Sample ID: 880-17262-12

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

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	30478	07/23/22 18:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30484	07/24/22 20:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30590	07/25/22 12:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30512	07/25/22 22:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		1			30489	07/25/22 09:51	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Client Sample ID: H-3 (0-0.5')
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 10:05

Lab Sample ID: 880-17262-13
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	30478	07/23/22 18:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30484	07/24/22 20:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30506	07/25/22 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30514	07/25/22 15:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		1			30489	07/25/22 10:00	CH	XEN MID

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/21/22 00:00
Date Received: 07/22/22 10:05

Lab Sample ID: 880-17262-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	30478	07/23/22 18:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30484	07/24/22 20:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30550	07/25/22 10:43	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30638	07/25/22 16:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30506	07/25/22 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30514	07/25/22 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	30402	07/22/22 12:03	SMC	XEN MID
Soluble	Analysis	300.0		1			30489	07/25/22 10:28	CH	XEN MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-17262-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-17262-1	S-1 (0-1')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-2	S-1 (1.5')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-3	S-1 (2.0')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-4	S-1 (2.5')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-5	S-1 (3.0')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-6	S-1 (3.5')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-7	S-2 (0-1')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-8	S-2 (1.5')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-9	S-2 (2.0')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-10	S-2 (2.5')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-11	H-1 (0-0.5')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-12	H-2 (0-0.5')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-13	H-3 (0-0.5')	Solid	07/21/22 00:00	07/22/22 10:05
880-17262-14	H-4 (0-0.5')	Solid	07/21/22 00:00	07/22/22 10:05

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Work Order No: 17262

Page 1 of 2

Project Manager	Conner Mohering	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving, NM 88256
Phone	432-813-9044	Email	jacqui.harris@conocophillips.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ JRC ☐ Superfund
State of Project.	
Reporting Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name		Diamondback		Turn Around		ANALYSIS REQUEST		Preservative Codes	
Project Number	1100	☐ Routine	☒ Rush	Due Date	72 Hr			None NO	DI Water- H ₂ O
Project Location	Eddy Co, NM							Cool Cool	MeOH Me
Sampler's Name	CM							HCL HC	HNO ₃ HN
PO #								H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT		Temp Mark	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	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	
S-1 (0-1')		7/21/2022	-	X		Grab/	1	TPH 8015M (GRO + DRO + MRO)	
S-1 (1 5')		7/21/2022	-	X		Grab/	1	Chloride 300 0	
S-1 (2 0')		7/21/2022	-	X		Grab/	1		
S-1 (2 5')		7/21/2022	-	X		Grab/	1		
S-1 (3 0')		7/21/2022	-	X		Grab/	1		
S-1 (3 5')		7/21/2022	-	X		Grab/	1		
S-2 (0-1')		7/21/2022	-	X		Grab/	1		
S-2 (1 5')		7/21/2022	-	X		Grab/	1		
S-2 (2 0')		7/21/2022	-	X		Grab/	1		
S-2 (2 5')		7/21/2022	-	X		Grab/	1		

Comments:



880-17262 Chain of Custody

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	6/29/2022		7/22/22
			10:05

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Work Order No: 17262

Page 2 of 2

Project Manager	Conner Mohering	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 W Wall St Ste 415	Address	15 W London Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving NM 88256
Phone	432-813-9044	Email	jacqui.harris@conocophillips.com

Work Order Comments	
Program, UST/PST	☐ PRP ☐ Brownfields ☐ JRC ☐ Superfund
State of Project	
Reporting Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV
Deliverables, EDD	☐ ADAPT ☐ Other

Project Name	Diamondback	Turn Around		Parameters	ANALYSIS REQUEST												Preservative Codes	
Project Number	1100	☐ Routine	☒ Rush		Press. Code												None NO	DI Water- H ₂ O
Project Location	Eddy Co, NM	Due Date	72 Hr		TAT starts the day received by the lab if received by 4 30pm												Cool Cool	MeOH Me
Sampler's Name	CM																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											HOLD	
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											Sample Comments	
H-1 (0-0.5')	7/21/2022	-	X		Grab/	1	X	X	X									
H-2 (0-0.5')	7/21/2022	-	X		Grab/	1	X	X	X									
H-3 (0-0.5')	7/21/2022	-	X		Grab/	1	X	X	X									
H-4 (0-0.5')	7/21/2022	-	X		Grab/	1	X	X	X									
Loc: 880																		
17262																		

Comments:

Relinquished by (Signature)		Date/Time	Received by (Signature)		Date/Time
		6/29/2022			
		7/22/22			
		10:05			

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-17262-1

SDG Number: Eddy Co, NM

Login Number: 17262

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/14/2022 3:39:51 PM Revision 1

JOB DESCRIPTION

Diamondback
SDG NUMBER Eddy Co, NM

JOB NUMBER

880-22521-1

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

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

Generated
12/14/2022 3:39:51 PM
Revision 1

Client: Carmona Resources
Project/Site: Diamondback

Laboratory Job ID: 880-22521-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Job ID: 880-22521-1
SDG: Eddy Co, NM

Job ID: 880-22521-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22521-1

REVISION

The report being provided is a revision of the original report sent on 12/12/2022. The report (revision 1) is being revised due to Chain of Custody missing on final report.

Report revision history

Receipt

The samples were received on 12/9/2022 9:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (2.5') (880-22521-1), CS-2 (2.5') (880-22521-2), CS-3 (8') (880-22521-3), CS-4 (8') (880-22521-4), CS-5 (8') (880-22521-5), SW-1 (2.5') (880-22521-6), SW-2 (2.5') (880-22521-7), SW-3 (2.5') (880-22521-8), SW-4 (8') (880-22521-9), SW-5 (8') (880-22521-10), SW-6 (8') (880-22521-11), SW-7 (8') (880-22521-12), SW-8 (8') (880-22521-13), SW-9 (8') (880-22521-14), SW-10 (2.5') (880-22521-15), SW-11 (2.5') (880-22521-16) and SW-12 (2.5') (880-22521-17).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-5 (8') (880-22521-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-8 (8') (880-22521-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41434 and analytical batch 880-41519 was outside the upper control limits.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (2.5')

Lab Sample ID: 880-22521-1

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/09/22 13:09	12/09/22 22:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/09/22 13:09	12/09/22 22:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/09/22 13:09	12/09/22 22:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/09/22 13:09	12/09/22 22:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/09/22 13:09	12/09/22 22:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/09/22 13:09	12/09/22 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	12/09/22 13:09	12/09/22 22:45	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/09/22 13:09	12/09/22 22:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/12/22 15:56	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 12:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 12:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	12/09/22 11:02	12/11/22 12:10	1
o-Terphenyl	108		70 - 130	12/09/22 11:02	12/11/22 12:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.3		5.05		mg/Kg			12/09/22 17:01	1

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-22521-2

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/22 13:09	12/09/22 23:06	1
Toluene	0.00602		0.00202		mg/Kg		12/09/22 13:09	12/09/22 23:06	1
Ethylbenzene	0.00226		0.00202		mg/Kg		12/09/22 13:09	12/09/22 23:06	1
m-Xylene & p-Xylene	0.0164		0.00404		mg/Kg		12/09/22 13:09	12/09/22 23:06	1
o-Xylene	0.00569		0.00202		mg/Kg		12/09/22 13:09	12/09/22 23:06	1
Xylenes, Total	0.0221		0.00404		mg/Kg		12/09/22 13:09	12/09/22 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/09/22 13:09	12/09/22 23:06	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/09/22 13:09	12/09/22 23:06	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-22521-2

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0304		0.00404		mg/Kg			12/12/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 10:36	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		12/09/22 11:02	12/11/22 13:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 13:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/09/22 11:02	12/11/22 13:15	1
o-Terphenyl	103		70 - 130				12/09/22 11:02	12/11/22 13:15	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.2		4.96		mg/Kg			12/09/22 17:21	1

Client Sample ID: CS-3 (8')

Lab Sample ID: 880-22521-3

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/09/22 23:26	1
Toluene	0.00475		0.00200		mg/Kg		12/09/22 13:09	12/09/22 23:26	1
Ethylbenzene	0.00354		0.00200		mg/Kg		12/09/22 13:09	12/09/22 23:26	1
m-Xylene & p-Xylene	0.00793		0.00399		mg/Kg		12/09/22 13:09	12/09/22 23:26	1
o-Xylene	0.0101		0.00200		mg/Kg		12/09/22 13:09	12/09/22 23:26	1
Xylenes, Total	0.0180		0.00399		mg/Kg		12/09/22 13:09	12/09/22 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				12/09/22 13:09	12/09/22 23:26	1
1,4-Difluorobenzene (Surr)	119		70 - 130				12/09/22 13:09	12/09/22 23:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0263		0.00399		mg/Kg			12/12/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 10:36	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		12/09/22 11:02	12/11/22 13:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 13:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: CS-3 (8')

Lab Sample ID: 880-22521-3

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				12/09/22 11:02	12/11/22 13:36	1
o-Terphenyl	103		70 - 130				12/09/22 11:02	12/11/22 13:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.7		4.99		mg/Kg			12/09/22 17:28	1

Client Sample ID: CS-4 (8')

Lab Sample ID: 880-22521-4

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/09/22 13:09	12/09/22 23:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/22 13:09	12/09/22 23:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/22 13:09	12/09/22 23:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/09/22 13:09	12/09/22 23:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/22 13:09	12/09/22 23:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/09/22 13:09	12/09/22 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				12/09/22 13:09	12/09/22 23:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/09/22 13:09	12/09/22 23:46	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			12/12/22 15:56	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 13:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 13:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/09/22 11:02	12/11/22 13:58	1
o-Terphenyl	91		70 - 130				12/09/22 11:02	12/11/22 13:58	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3		5.03		mg/Kg			12/09/22 17:34	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: CS-5 (8')

Lab Sample ID: 880-22521-5

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/22 13:09	12/10/22 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/22 13:09	12/10/22 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	12/09/22 13:09	12/10/22 00:07	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/09/22 13:09	12/10/22 00:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/12/22 15:56	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 14:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 14:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	12/09/22 11:02	12/11/22 14:20	1
o-Terphenyl	93		70 - 130	12/09/22 11:02	12/11/22 14:20	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		4.97		mg/Kg			12/09/22 17:41	1

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-22521-6

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/22 13:09	12/10/22 00:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/22 13:09	12/10/22 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/09/22 13:09	12/10/22 00:27	1
1,4-Difluorobenzene (Surr)	75		70 - 130	12/09/22 13:09	12/10/22 00:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-22521-6

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/12/22 15:56	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 14:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 14:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				12/09/22 11:02	12/11/22 14:40	1
o-Terphenyl	110		70 - 130				12/09/22 11:02	12/11/22 14:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.7		4.96		mg/Kg			12/09/22 18:01	1

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-22521-7

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/22 13:09	12/10/22 00:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 00:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/22 13:09	12/10/22 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				12/09/22 13:09	12/10/22 00:48	1
1,4-Difluorobenzene (Surr)	76		70 - 130				12/09/22 13:09	12/10/22 00:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/12/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/12/22 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/22 11:02	12/11/22 15:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/22 11:02	12/11/22 15:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-22521-7

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/22 11:02	12/11/22 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				12/09/22 11:02	12/11/22 15:02	1
o-Terphenyl	99		70 - 130				12/09/22 11:02	12/11/22 15:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		4.96		mg/Kg			12/09/22 18:08	1

Client Sample ID: SW-3 (2.5')

Lab Sample ID: 880-22521-8

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/22 13:09	12/10/22 01:08	1
Toluene	0.00216		0.00202		mg/Kg		12/09/22 13:09	12/10/22 01:08	1
Ethylbenzene	0.00399		0.00202		mg/Kg		12/09/22 13:09	12/10/22 01:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/09/22 13:09	12/10/22 01:08	1
o-Xylene	0.00333		0.00202		mg/Kg		12/09/22 13:09	12/10/22 01:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/09/22 13:09	12/10/22 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				12/09/22 13:09	12/10/22 01:08	1
1,4-Difluorobenzene (Surr)	90		70 - 130				12/09/22 13:09	12/10/22 01:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00948		0.00403		mg/Kg			12/12/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 10:36	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		12/09/22 11:02	12/11/22 15:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 15:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				12/09/22 11:02	12/11/22 15:24	1
o-Terphenyl	96		70 - 130				12/09/22 11:02	12/11/22 15:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.6		5.00		mg/Kg			12/09/22 18:53	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-4 (8')

Lab Sample ID: 880-22521-9

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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		12/09/22 13:09	12/10/22 01:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/09/22 13:09	12/10/22 01:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/09/22 13:09	12/10/22 01:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/09/22 13:09	12/10/22 01:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/09/22 13:09	12/10/22 01:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/09/22 13:09	12/10/22 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	12/09/22 13:09	12/10/22 01:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/09/22 13:09	12/10/22 01:28	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			12/12/22 15:56	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 15:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 15:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	12/09/22 11:02	12/11/22 15:45	1
o-Terphenyl	99		70 - 130	12/09/22 11:02	12/11/22 15:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.9		4.97		mg/Kg			12/09/22 19:00	1

Client Sample ID: SW-5 (8')

Lab Sample ID: 880-22521-10

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 01:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 01:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/09/22 13:09	12/10/22 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/10/22 01:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/09/22 13:09	12/10/22 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	12/09/22 13:09	12/10/22 01:49	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/09/22 13:09	12/10/22 01:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-5 (8')

Lab Sample ID: 880-22521-10

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/22 10:36	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		12/09/22 11:02	12/11/22 16:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 16:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/09/22 11:02	12/11/22 16:06	1
o-Terphenyl	102		70 - 130				12/09/22 11:02	12/11/22 16:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.4		5.03		mg/Kg			12/09/22 19:07	1

Client Sample ID: SW-6 (8')

Lab Sample ID: 880-22521-11

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 11:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 11:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 11:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/12/22 08:35	12/12/22 11:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 11:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/12/22 08:35	12/12/22 11:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				12/12/22 08:35	12/12/22 11:17	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/12/22 08:35	12/12/22 11:17	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			12/12/22 13:11	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 16:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 16:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-6 (8')

Lab Sample ID: 880-22521-11

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				12/09/22 11:02	12/11/22 16:49	1
o-Terphenyl	112		70 - 130				12/09/22 11:02	12/11/22 16:49	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2		5.01		mg/Kg			12/09/22 19:13	1

Client Sample ID: SW-7 (8')

Lab Sample ID: 880-22521-12

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 11:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 11:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 11:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/12/22 08:35	12/12/22 11:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 11:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/12/22 08:35	12/12/22 11:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				12/12/22 08:35	12/12/22 11:37	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/12/22 08:35	12/12/22 11:37	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			12/12/22 13:11	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/09/22 11:02	12/11/22 17:10	1
o-Terphenyl	106		70 - 130				12/09/22 11:02	12/11/22 17:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.6		4.99		mg/Kg			12/09/22 19:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-8 (8')

Lab Sample ID: 880-22521-13

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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		12/12/22 08:35	12/12/22 11:58	1
Toluene	0.00228		0.00199		mg/Kg		12/12/22 08:35	12/12/22 11:58	1
Ethylbenzene	0.00414		0.00199		mg/Kg		12/12/22 08:35	12/12/22 11:58	1
m-Xylene & p-Xylene	0.00740		0.00398		mg/Kg		12/12/22 08:35	12/12/22 11:58	1
o-Xylene	0.00534		0.00199		mg/Kg		12/12/22 08:35	12/12/22 11:58	1
Xylenes, Total	0.0127		0.00398		mg/Kg		12/12/22 08:35	12/12/22 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130	12/12/22 08:35	12/12/22 11:58	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/12/22 08:35	12/12/22 11:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0192		0.00398		mg/Kg			12/12/22 13:11	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 17:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 17:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	12/09/22 11:02	12/11/22 17:31	1
o-Terphenyl	93		70 - 130	12/09/22 11:02	12/11/22 17:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.8		4.95		mg/Kg			12/09/22 19:40	1

Client Sample ID: SW-9 (8')

Lab Sample ID: 880-22521-14

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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		12/12/22 08:35	12/12/22 12:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/22 08:35	12/12/22 12:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/22 08:35	12/12/22 12:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/22 08:35	12/12/22 12:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/22 08:35	12/12/22 12:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/22 08:35	12/12/22 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/12/22 08:35	12/12/22 12:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/12/22 08:35	12/12/22 12:18	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-9 (8')

Lab Sample ID: 880-22521-14

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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			12/12/22 13:11	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 17:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 17:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/09/22 11:02	12/11/22 17:53	1
o-Terphenyl	111		70 - 130				12/09/22 11:02	12/11/22 17:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		4.98		mg/Kg			12/09/22 20:00	1

Client Sample ID: SW-10 (2.5')

Lab Sample ID: 880-22521-15

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 12:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/12/22 08:35	12/12/22 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 12:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/22 08:35	12/12/22 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/12/22 08:35	12/12/22 12:39	1
1,4-Difluorobenzene (Surr)	87		70 - 130				12/12/22 08:35	12/12/22 12:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/22 13:11	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 18:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 18:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-10 (2.5')

Lab Sample ID: 880-22521-15

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				12/09/22 11:02	12/11/22 18:14	1
o-Terphenyl	101		70 - 130				12/09/22 11:02	12/11/22 18:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.2		5.04		mg/Kg			12/09/22 20:07	1

Client Sample ID: SW-11 (2.5')

Lab Sample ID: 880-22521-16

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 12:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 12:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 12:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/22 08:35	12/12/22 12:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 12:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/22 08:35	12/12/22 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				12/12/22 08:35	12/12/22 12:59	1
1,4-Difluorobenzene (Surr)	86		70 - 130				12/12/22 08:35	12/12/22 12:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/12/22 16:09	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 18:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 18:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				12/09/22 11:02	12/11/22 18:35	1
o-Terphenyl	115		70 - 130				12/09/22 11:02	12/11/22 18:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		5.02		mg/Kg			12/09/22 20:13	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-12 (2.5')

Lab Sample ID: 880-22521-17

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 13:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 13:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 13:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/12/22 08:35	12/12/22 13:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/12/22 08:35	12/12/22 13:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/12/22 08:35	12/12/22 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/12/22 08:35	12/12/22 13:20	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/12/22 08:35	12/12/22 13:20	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			12/12/22 16:09	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			12/12/22 10:36	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		12/09/22 11:02	12/11/22 18:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 18:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/22 11:02	12/11/22 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	12/09/22 11:02	12/11/22 18:56	1
o-Terphenyl	94		70 - 130	12/09/22 11:02	12/11/22 18:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		4.97		mg/Kg			12/09/22 20:20	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-22521-1	CS-1 (2.5')	85	92
880-22521-1 MS	CS-1 (2.5')	117	110
880-22521-1 MSD	CS-1 (2.5')	116	109
880-22521-2	CS-2 (2.5')	116	103
880-22521-3	CS-3 (8')	78	119
880-22521-4	CS-4 (8')	97	106
880-22521-5	CS-5 (8')	84	104
880-22521-6	SW-1 (2.5')	99	75
880-22521-7	SW-2 (2.5')	98	76
880-22521-8	SW-3 (2.5')	78	90
880-22521-9	SW-4 (8')	77	100
880-22521-10	SW-5 (8')	66 S1-	99
880-22521-11	SW-6 (8')	102	107
880-22521-11 MS	SW-6 (8')	111	118
880-22521-11 MSD	SW-6 (8')	103	112
880-22521-12	SW-7 (8')	82	105
880-22521-13	SW-8 (8')	60 S1-	108
880-22521-14	SW-9 (8')	126	101
880-22521-15	SW-10 (2.5')	103	87
880-22521-16	SW-11 (2.5')	80	86
880-22521-17	SW-12 (2.5')	103	100
LCS 880-41470/1-A	Lab Control Sample	101	97
LCS 880-41570/1-A	Lab Control Sample	107	111
LCSD 880-41470/2-A	Lab Control Sample Dup	101	111
LCSD 880-41570/2-A	Lab Control Sample Dup	117	112
MB 880-41393/5-A	Method Blank	86	100
MB 880-41470/5-A	Method Blank	84	96
MB 880-41570/5-A	Method Blank	87	99
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-22521-1	CS-1 (2.5')	97	108
880-22521-1 MS	CS-1 (2.5')	109	106
880-22521-1 MSD	CS-1 (2.5')	97	93
880-22521-2	CS-2 (2.5')	95	103
880-22521-3	CS-3 (8')	100	103
880-22521-4	CS-4 (8')	86	91
880-22521-5	CS-5 (8')	89	93
880-22521-6	SW-1 (2.5')	100	110
880-22521-7	SW-2 (2.5')	92	99
880-22521-8	SW-3 (2.5')	90	96
880-22521-9	SW-4 (8')	92	99

Eurofins Midland

Surrogate Summary

Client: Carmona Resources

Job ID: 880-22521-1

Project/Site: Diamondback

SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-22521-10	SW-5 (8')	95	102
880-22521-11	SW-6 (8')	104	112
880-22521-12	SW-7 (8')	99	106
880-22521-13	SW-8 (8')	86	93
880-22521-14	SW-9 (8')	103	111
880-22521-15	SW-10 (2.5')	92	101
880-22521-16	SW-11 (2.5')	106	115
880-22521-17	SW-12 (2.5')	87	94
LCS 880-41434/2-A	Lab Control Sample	90	95
LCSD 880-41434/3-A	Lab Control Sample Dup	83	90
MB 880-41434/1-A	Method Blank	114	172 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41393/5-A

Matrix: Solid

Analysis Batch: 41420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/08/22 15:57	12/09/22 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/08/22 15:57	12/09/22 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/08/22 15:57	12/09/22 11:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/08/22 15:57	12/09/22 11:50	1

Lab Sample ID: MB 880-41470/5-A

Matrix: Solid

Analysis Batch: 41420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/09/22 22:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/09/22 22:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/09/22 22:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/22 13:09	12/09/22 22:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/22 13:09	12/09/22 22:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/22 13:09	12/09/22 22:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	12/09/22 13:09	12/09/22 22:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/09/22 13:09	12/09/22 22:24	1

Lab Sample ID: LCS 880-41470/1-A

Matrix: Solid

Analysis Batch: 41420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08189		mg/Kg		82	70 - 130
Toluene	0.100	0.09103		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.1218		mg/Kg		122	70 - 130
m-Xylene & p-Xylene	0.200	0.2101		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-41470/2-A

Matrix: Solid

Analysis Batch: 41420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1093		mg/Kg		109	70 - 130	29	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-41470/2-A

Matrix: Solid

Analysis Batch: 41420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09802		mg/Kg		98	70 - 130	7	35
Ethylbenzene	0.100	0.09506		mg/Kg		95	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.1921		mg/Kg		96	70 - 130	9	35
o-Xylene	0.100	0.09529		mg/Kg		95	70 - 130	15	35

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

Lab Sample ID: 880-22521-1 MS

Matrix: Solid

Analysis Batch: 41420

Client Sample ID: CS-1 (2.5')

Prep Type: Total/NA

Prep Batch: 41470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.07924		mg/Kg		79	70 - 130
Toluene	<0.00201	U	0.101	0.07690		mg/Kg		76	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.08454		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1694		mg/Kg		84	70 - 130
o-Xylene	<0.00201	U	0.101	0.08595		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-22521-1 MSD

Matrix: Solid

Analysis Batch: 41420

Client Sample ID: CS-1 (2.5')

Prep Type: Total/NA

Prep Batch: 41470

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.07246		mg/Kg		73	70 - 130	9	35
Toluene	<0.00201	U	0.0990	0.07049		mg/Kg		71	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.0990	0.07497		mg/Kg		76	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1550		mg/Kg		78	70 - 130	9	35
o-Xylene	<0.00201	U	0.0990	0.07902		mg/Kg		79	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-41570/5-A

Matrix: Solid

Analysis Batch: 41565

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 10:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 10:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 10:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/22 08:35	12/12/22 10:55	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-41570/5-A

Matrix: Solid

Analysis Batch: 41565

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/22 08:35	12/12/22 10:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/22 08:35	12/12/22 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/12/22 08:35	12/12/22 10:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/12/22 08:35	12/12/22 10:55	1

Lab Sample ID: LCS 880-41570/1-A

Matrix: Solid

Analysis Batch: 41565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1176		mg/Kg		118	70 - 130
Toluene	0.100	0.1073		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1094		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2289		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1118		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-41570/2-A

Matrix: Solid

Analysis Batch: 41565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41570

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1063		mg/Kg		106	70 - 130	10	35
Toluene	0.100	0.09840		mg/Kg		98	70 - 130	9	35
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2219		mg/Kg		111	70 - 130	3	35
o-Xylene	0.100	0.1088		mg/Kg		109	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-22521-11 MS

Matrix: Solid

Analysis Batch: 41565

Client Sample ID: SW-6 (8')

Prep Type: Total/NA

Prep Batch: 41570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.1020		mg/Kg		102	70 - 130
Toluene	<0.00201	U	0.0996	0.09331		mg/Kg		94	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.09766		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2030		mg/Kg		102	70 - 130
o-Xylene	<0.00201	U	0.0996	0.1006		mg/Kg		101	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-22521-11 MS

Matrix: Solid

Analysis Batch: 41565

Client Sample ID: SW-6 (8')

Prep Type: Total/NA

Prep Batch: 41570

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-22521-11 MSD

Matrix: Solid

Analysis Batch: 41565

Client Sample ID: SW-6 (8')

Prep Type: Total/NA

Prep Batch: 41570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.1039		mg/Kg		104	70 - 130	2	35
Toluene	<0.00201	U	0.0994	0.09671		mg/Kg		97	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.0994	0.1011		mg/Kg		102	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2109		mg/Kg		106	70 - 130	4	35
o-Xylene	<0.00201	U	0.0994	0.1045		mg/Kg		105	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-41434/1-A

Matrix: Solid

Analysis Batch: 41519

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41434

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		12/09/22 11:02	12/11/22 09:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 09:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/22 11:02	12/11/22 09:39	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	114		70 - 130	12/09/22 11:02	12/11/22 09:39	1			
o-Terphenyl	172	S1+	70 - 130	12/09/22 11:02	12/11/22 09:39	1			

Lab Sample ID: LCS 880-41434/2-A

Matrix: Solid

Analysis Batch: 41519

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	804.9		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	849.5		mg/Kg		85	70 - 130

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

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-41434/3-A

Matrix: Solid

Analysis Batch: 41519

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	800.2		mg/Kg		80	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	835.7		mg/Kg		84	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	83		70 - 130						
o-Terphenyl	90		70 - 130						

Lab Sample ID: 880-22521-1 MS

Matrix: Solid

Analysis Batch: 41519

Client Sample ID: CS-1 (2.5')

Prep Type: Total/NA

Prep Batch: 41434

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	999	951.4		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	859.2		mg/Kg		86	70 - 130		

Lab Sample ID: 880-22521-1 MSD

Matrix: Solid

Analysis Batch: 41519

Client Sample ID: CS-1 (2.5')

Prep Type: Total/NA

Prep Batch: 41434

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	997	799.0		mg/Kg		80	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	766.3		mg/Kg		77	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	93		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41427/1-A

Matrix: Solid

Analysis Batch: 41529

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			12/09/22 16:41	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-41427/2-A

Matrix: Solid

Analysis Batch: 41529

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-41427/3-A

Matrix: Solid

Analysis Batch: 41529

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	254.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-22521-1 MS

Matrix: Solid

Analysis Batch: 41529

Client Sample ID: CS-1 (2.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	27.3		253	289.3		mg/Kg		104	90 - 110

Lab Sample ID: 880-22521-1 MSD

Matrix: Solid

Analysis Batch: 41529

Client Sample ID: CS-1 (2.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	27.3		253	292.3		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-22521-11 MS

Matrix: Solid

Analysis Batch: 41529

Client Sample ID: SW-6 (8')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16.2		251	269.5		mg/Kg		101	90 - 110

Lab Sample ID: 880-22521-11 MSD

Matrix: Solid

Analysis Batch: 41529

Client Sample ID: SW-6 (8')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16.2		251	271.0		mg/Kg		102	90 - 110	1	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 41393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41393/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 41420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-1	CS-1 (2.5')	Total/NA	Solid	8021B	41470
880-22521-2	CS-2 (2.5')	Total/NA	Solid	8021B	41470
880-22521-3	CS-3 (8')	Total/NA	Solid	8021B	41470
880-22521-4	CS-4 (8')	Total/NA	Solid	8021B	41470
880-22521-5	CS-5 (8')	Total/NA	Solid	8021B	41470
880-22521-6	SW-1 (2.5')	Total/NA	Solid	8021B	41470
880-22521-7	SW-2 (2.5')	Total/NA	Solid	8021B	41470
880-22521-8	SW-3 (2.5')	Total/NA	Solid	8021B	41470
880-22521-9	SW-4 (8')	Total/NA	Solid	8021B	41470
880-22521-10	SW-5 (8')	Total/NA	Solid	8021B	41470
MB 880-41393/5-A	Method Blank	Total/NA	Solid	8021B	41393
MB 880-41470/5-A	Method Blank	Total/NA	Solid	8021B	41470
LCS 880-41470/1-A	Lab Control Sample	Total/NA	Solid	8021B	41470
LCSD 880-41470/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41470
880-22521-1 MS	CS-1 (2.5')	Total/NA	Solid	8021B	41470
880-22521-1 MSD	CS-1 (2.5')	Total/NA	Solid	8021B	41470

Prep Batch: 41470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-1	CS-1 (2.5')	Total/NA	Solid	5035	
880-22521-2	CS-2 (2.5')	Total/NA	Solid	5035	
880-22521-3	CS-3 (8')	Total/NA	Solid	5035	
880-22521-4	CS-4 (8')	Total/NA	Solid	5035	
880-22521-5	CS-5 (8')	Total/NA	Solid	5035	
880-22521-6	SW-1 (2.5')	Total/NA	Solid	5035	
880-22521-7	SW-2 (2.5')	Total/NA	Solid	5035	
880-22521-8	SW-3 (2.5')	Total/NA	Solid	5035	
880-22521-9	SW-4 (8')	Total/NA	Solid	5035	
880-22521-10	SW-5 (8')	Total/NA	Solid	5035	
MB 880-41470/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41470/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41470/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22521-1 MS	CS-1 (2.5')	Total/NA	Solid	5035	
880-22521-1 MSD	CS-1 (2.5')	Total/NA	Solid	5035	

Analysis Batch: 41565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-11	SW-6 (8')	Total/NA	Solid	8021B	41570
880-22521-12	SW-7 (8')	Total/NA	Solid	8021B	41570
880-22521-13	SW-8 (8')	Total/NA	Solid	8021B	41570
880-22521-14	SW-9 (8')	Total/NA	Solid	8021B	41570
880-22521-15	SW-10 (2.5')	Total/NA	Solid	8021B	41570
880-22521-16	SW-11 (2.5')	Total/NA	Solid	8021B	41570
880-22521-17	SW-12 (2.5')	Total/NA	Solid	8021B	41570
MB 880-41570/5-A	Method Blank	Total/NA	Solid	8021B	41570
LCS 880-41570/1-A	Lab Control Sample	Total/NA	Solid	8021B	41570
LCSD 880-41570/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41570

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QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 41565 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-11 MS	SW-6 (8')	Total/NA	Solid	8021B	41570
880-22521-11 MSD	SW-6 (8')	Total/NA	Solid	8021B	41570

Prep Batch: 41570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-11	SW-6 (8')	Total/NA	Solid	5035	
880-22521-12	SW-7 (8')	Total/NA	Solid	5035	
880-22521-13	SW-8 (8')	Total/NA	Solid	5035	
880-22521-14	SW-9 (8')	Total/NA	Solid	5035	
880-22521-15	SW-10 (2.5')	Total/NA	Solid	5035	
880-22521-16	SW-11 (2.5')	Total/NA	Solid	5035	
880-22521-17	SW-12 (2.5')	Total/NA	Solid	5035	
MB 880-41570/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41570/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41570/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22521-11 MS	SW-6 (8')	Total/NA	Solid	5035	
880-22521-11 MSD	SW-6 (8')	Total/NA	Solid	5035	

Analysis Batch: 41650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-1	CS-1 (2.5')	Total/NA	Solid	Total BTEX	
880-22521-2	CS-2 (2.5')	Total/NA	Solid	Total BTEX	
880-22521-3	CS-3 (8')	Total/NA	Solid	Total BTEX	
880-22521-4	CS-4 (8')	Total/NA	Solid	Total BTEX	
880-22521-5	CS-5 (8')	Total/NA	Solid	Total BTEX	
880-22521-6	SW-1 (2.5')	Total/NA	Solid	Total BTEX	
880-22521-7	SW-2 (2.5')	Total/NA	Solid	Total BTEX	
880-22521-8	SW-3 (2.5')	Total/NA	Solid	Total BTEX	
880-22521-9	SW-4 (8')	Total/NA	Solid	Total BTEX	
880-22521-10	SW-5 (8')	Total/NA	Solid	Total BTEX	
880-22521-11	SW-6 (8')	Total/NA	Solid	Total BTEX	
880-22521-12	SW-7 (8')	Total/NA	Solid	Total BTEX	
880-22521-13	SW-8 (8')	Total/NA	Solid	Total BTEX	
880-22521-14	SW-9 (8')	Total/NA	Solid	Total BTEX	
880-22521-15	SW-10 (2.5')	Total/NA	Solid	Total BTEX	
880-22521-16	SW-11 (2.5')	Total/NA	Solid	Total BTEX	
880-22521-17	SW-12 (2.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-1	CS-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-22521-2	CS-2 (2.5')	Total/NA	Solid	8015NM Prep	
880-22521-3	CS-3 (8')	Total/NA	Solid	8015NM Prep	
880-22521-4	CS-4 (8')	Total/NA	Solid	8015NM Prep	
880-22521-5	CS-5 (8')	Total/NA	Solid	8015NM Prep	
880-22521-6	SW-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-22521-7	SW-2 (2.5')	Total/NA	Solid	8015NM Prep	
880-22521-8	SW-3 (2.5')	Total/NA	Solid	8015NM Prep	
880-22521-9	SW-4 (8')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 41434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-10	SW-5 (8')	Total/NA	Solid	8015NM Prep	
880-22521-11	SW-6 (8')	Total/NA	Solid	8015NM Prep	
880-22521-12	SW-7 (8')	Total/NA	Solid	8015NM Prep	
880-22521-13	SW-8 (8')	Total/NA	Solid	8015NM Prep	
880-22521-14	SW-9 (8')	Total/NA	Solid	8015NM Prep	
880-22521-15	SW-10 (2.5')	Total/NA	Solid	8015NM Prep	
880-22521-16	SW-11 (2.5')	Total/NA	Solid	8015NM Prep	
880-22521-17	SW-12 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-41434/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41434/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22521-1 MS	CS-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-22521-1 MSD	CS-1 (2.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-1	CS-1 (2.5')	Total/NA	Solid	8015B NM	41434
880-22521-2	CS-2 (2.5')	Total/NA	Solid	8015B NM	41434
880-22521-3	CS-3 (8')	Total/NA	Solid	8015B NM	41434
880-22521-4	CS-4 (8')	Total/NA	Solid	8015B NM	41434
880-22521-5	CS-5 (8')	Total/NA	Solid	8015B NM	41434
880-22521-6	SW-1 (2.5')	Total/NA	Solid	8015B NM	41434
880-22521-7	SW-2 (2.5')	Total/NA	Solid	8015B NM	41434
880-22521-8	SW-3 (2.5')	Total/NA	Solid	8015B NM	41434
880-22521-9	SW-4 (8')	Total/NA	Solid	8015B NM	41434
880-22521-10	SW-5 (8')	Total/NA	Solid	8015B NM	41434
880-22521-11	SW-6 (8')	Total/NA	Solid	8015B NM	41434
880-22521-12	SW-7 (8')	Total/NA	Solid	8015B NM	41434
880-22521-13	SW-8 (8')	Total/NA	Solid	8015B NM	41434
880-22521-14	SW-9 (8')	Total/NA	Solid	8015B NM	41434
880-22521-15	SW-10 (2.5')	Total/NA	Solid	8015B NM	41434
880-22521-16	SW-11 (2.5')	Total/NA	Solid	8015B NM	41434
880-22521-17	SW-12 (2.5')	Total/NA	Solid	8015B NM	41434
MB 880-41434/1-A	Method Blank	Total/NA	Solid	8015B NM	41434
LCS 880-41434/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41434
LCSD 880-41434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41434
880-22521-1 MS	CS-1 (2.5')	Total/NA	Solid	8015B NM	41434
880-22521-1 MSD	CS-1 (2.5')	Total/NA	Solid	8015B NM	41434

Analysis Batch: 41617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-1	CS-1 (2.5')	Total/NA	Solid	8015 NM	
880-22521-2	CS-2 (2.5')	Total/NA	Solid	8015 NM	
880-22521-3	CS-3 (8')	Total/NA	Solid	8015 NM	
880-22521-4	CS-4 (8')	Total/NA	Solid	8015 NM	
880-22521-5	CS-5 (8')	Total/NA	Solid	8015 NM	
880-22521-6	SW-1 (2.5')	Total/NA	Solid	8015 NM	
880-22521-7	SW-2 (2.5')	Total/NA	Solid	8015 NM	
880-22521-8	SW-3 (2.5')	Total/NA	Solid	8015 NM	
880-22521-9	SW-4 (8')	Total/NA	Solid	8015 NM	
880-22521-10	SW-5 (8')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 41617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-11	SW-6 (8')	Total/NA	Solid	8015 NM	
880-22521-12	SW-7 (8')	Total/NA	Solid	8015 NM	
880-22521-13	SW-8 (8')	Total/NA	Solid	8015 NM	
880-22521-14	SW-9 (8')	Total/NA	Solid	8015 NM	
880-22521-15	SW-10 (2.5')	Total/NA	Solid	8015 NM	
880-22521-16	SW-11 (2.5')	Total/NA	Solid	8015 NM	
880-22521-17	SW-12 (2.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-1	CS-1 (2.5')	Soluble	Solid	DI Leach	
880-22521-2	CS-2 (2.5')	Soluble	Solid	DI Leach	
880-22521-3	CS-3 (8')	Soluble	Solid	DI Leach	
880-22521-4	CS-4 (8')	Soluble	Solid	DI Leach	
880-22521-5	CS-5 (8')	Soluble	Solid	DI Leach	
880-22521-6	SW-1 (2.5')	Soluble	Solid	DI Leach	
880-22521-7	SW-2 (2.5')	Soluble	Solid	DI Leach	
880-22521-8	SW-3 (2.5')	Soluble	Solid	DI Leach	
880-22521-9	SW-4 (8')	Soluble	Solid	DI Leach	
880-22521-10	SW-5 (8')	Soluble	Solid	DI Leach	
880-22521-11	SW-6 (8')	Soluble	Solid	DI Leach	
880-22521-12	SW-7 (8')	Soluble	Solid	DI Leach	
880-22521-13	SW-8 (8')	Soluble	Solid	DI Leach	
880-22521-14	SW-9 (8')	Soluble	Solid	DI Leach	
880-22521-15	SW-10 (2.5')	Soluble	Solid	DI Leach	
880-22521-16	SW-11 (2.5')	Soluble	Solid	DI Leach	
880-22521-17	SW-12 (2.5')	Soluble	Solid	DI Leach	
MB 880-41427/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41427/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41427/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22521-1 MS	CS-1 (2.5')	Soluble	Solid	DI Leach	
880-22521-1 MSD	CS-1 (2.5')	Soluble	Solid	DI Leach	
880-22521-11 MS	SW-6 (8')	Soluble	Solid	DI Leach	
880-22521-11 MSD	SW-6 (8')	Soluble	Solid	DI Leach	

Analysis Batch: 41529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-1	CS-1 (2.5')	Soluble	Solid	300.0	41427
880-22521-2	CS-2 (2.5')	Soluble	Solid	300.0	41427
880-22521-3	CS-3 (8')	Soluble	Solid	300.0	41427
880-22521-4	CS-4 (8')	Soluble	Solid	300.0	41427
880-22521-5	CS-5 (8')	Soluble	Solid	300.0	41427
880-22521-6	SW-1 (2.5')	Soluble	Solid	300.0	41427
880-22521-7	SW-2 (2.5')	Soluble	Solid	300.0	41427
880-22521-8	SW-3 (2.5')	Soluble	Solid	300.0	41427
880-22521-9	SW-4 (8')	Soluble	Solid	300.0	41427
880-22521-10	SW-5 (8')	Soluble	Solid	300.0	41427
880-22521-11	SW-6 (8')	Soluble	Solid	300.0	41427
880-22521-12	SW-7 (8')	Soluble	Solid	300.0	41427

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Analysis Batch: 41529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22521-13	SW-8 (8')	Soluble	Solid	300.0	41427
880-22521-14	SW-9 (8')	Soluble	Solid	300.0	41427
880-22521-15	SW-10 (2.5')	Soluble	Solid	300.0	41427
880-22521-16	SW-11 (2.5')	Soluble	Solid	300.0	41427
880-22521-17	SW-12 (2.5')	Soluble	Solid	300.0	41427
MB 880-41427/1-A	Method Blank	Soluble	Solid	300.0	41427
LCS 880-41427/2-A	Lab Control Sample	Soluble	Solid	300.0	41427
LCSD 880-41427/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41427
880-22521-1 MS	CS-1 (2.5')	Soluble	Solid	300.0	41427
880-22521-1 MSD	CS-1 (2.5')	Soluble	Solid	300.0	41427
880-22521-11 MS	SW-6 (8')	Soluble	Solid	300.0	41427
880-22521-11 MSD	SW-6 (8')	Soluble	Solid	300.0	41427

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (2.5')

Lab Sample ID: 880-22521-1

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/09/22 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 12:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 17:01	CH	EET MID

Client Sample ID: CS-2 (2.5')

Lab Sample ID: 880-22521-2

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/09/22 23:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 13:15	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 17:21	CH	EET MID

Client Sample ID: CS-3 (8')

Lab Sample ID: 880-22521-3

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/09/22 23:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 13:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 17:28	CH	EET MID

Client Sample ID: CS-4 (8')

Lab Sample ID: 880-22521-4

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/09/22 23:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: CS-4 (8')

Lab Sample ID: 880-22521-4

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 13:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 17:34	CH	EET MID

Client Sample ID: CS-5 (8')

Lab Sample ID: 880-22521-5

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/10/22 00:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 14:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 17:41	CH	EET MID

Client Sample ID: SW-1 (2.5')

Lab Sample ID: 880-22521-6

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/10/22 00:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 14:40	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 18:01	CH	EET MID

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-22521-7

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/10/22 00:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 15:02	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-2 (2.5')

Lab Sample ID: 880-22521-7

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 18:08	CH	EET MID

Client Sample ID: SW-3 (2.5')

Lab Sample ID: 880-22521-8

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/10/22 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 15:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 18:53	CH	EET MID

Client Sample ID: SW-4 (8')

Lab Sample ID: 880-22521-9

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/10/22 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 15:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 19:00	CH	EET MID

Client Sample ID: SW-5 (8')

Lab Sample ID: 880-22521-10

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	41470	12/09/22 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/10/22 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 15:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 16:06	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 19:07	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-6 (8')

Lab Sample ID: 880-22521-11

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	41570	12/12/22 08:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41565	12/12/22 11:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 13:11	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 16:49	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 19:13	CH	EET MID

Client Sample ID: SW-7 (8')

Lab Sample ID: 880-22521-12

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	41570	12/12/22 08:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41565	12/12/22 11:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 13:11	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 17:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 19:33	CH	EET MID

Client Sample ID: SW-8 (8')

Lab Sample ID: 880-22521-13

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	41570	12/12/22 08:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41565	12/12/22 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 13:11	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 17:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 19:40	CH	EET MID

Client Sample ID: SW-9 (8')

Lab Sample ID: 880-22521-14

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	41570	12/12/22 08:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41565	12/12/22 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 13:11	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-9 (8')

Lab Sample ID: 880-22521-14

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 17:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 20:00	CH	EET MID

Client Sample ID: SW-10 (2.5')

Lab Sample ID: 880-22521-15

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	41570	12/12/22 08:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41565	12/12/22 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 13:11	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 18:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 20:07	CH	EET MID

Client Sample ID: SW-11 (2.5')

Lab Sample ID: 880-22521-16

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	41570	12/12/22 08:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41565	12/12/22 12:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 16:09	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 18:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 20:13	CH	EET MID

Client Sample ID: SW-12 (2.5')

Lab Sample ID: 880-22521-17

Date Collected: 12/08/22 00:00

Matrix: Solid

Date Received: 12/09/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	41570	12/12/22 08:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41565	12/12/22 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41650	12/12/22 16:09	MNR	EET MID
Total/NA	Analysis	8015 NM		1			41617	12/12/22 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41434	12/09/22 11:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41519	12/11/22 18:56	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Client Sample ID: SW-12 (2.5')
Date Collected: 12/08/22 00:00
Date Received: 12/09/22 09:01

Lab Sample ID: 880-22521-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	41427	12/09/22 09:53	KS	EET MID
Soluble	Analysis	300.0		1			41529	12/09/22 20:20	CH	EET MID

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

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- 2
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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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

Eurofins Midland

Method Summary

Client: Carmona Resources
Project/Site: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Diamondback

Job ID: 880-22521-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22521-1	CS-1 (2.5')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-2	CS-2 (2.5')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-3	CS-3 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-4	CS-4 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-5	CS-5 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-6	SW-1 (2.5')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-7	SW-2 (2.5')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-8	SW-3 (2.5')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-9	SW-4 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-10	SW-5 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-11	SW-6 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-12	SW-7 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-13	SW-8 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-14	SW-9 (8')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-15	SW-10 (2.5')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-16	SW-11 (2.5')	Solid	12/08/22 00:00	12/09/22 09:01
880-22521-17	SW-12 (2.5')	Solid	12/08/22 00:00	12/09/22 09:01

Work Order No: 22001

Page 1 of 2

Project Manager Conner Mohring		Bill to (if different) Jacqui Harris	
Company Name Carmona Resources		Company Name COG	
Address 310 W Wall St Ste 415		Address 15 W London Rd	
City, State ZIP Midland, TX 79701		City, State ZIP Loving, NM 88256	
Phone 432-813-9044		Email jacqui.harris@conocophillips.com	

Project Name Diamondback	Turn Around 1100	Prep Code
Project Number Eddy Co. NM	Due Date 24 hr	
Sampler's Name GPJ		

PO #	Yes	No	Wet Ice	Yes	No
SAMPLE RECEIPT	Yes	No	Thermometer ID	Yes	No
Received Intact	Yes	No	Correction Factor	Yes	No
Cooler Custody Seals	Yes	No	Temperature Reading	Yes	No
Sample Custody Seals	Yes	No	Corrected Temperature	Yes	No
Total Containers	Yes	No		Yes	No

Sample Identification	Date	Time	Soil	Water	Grabi Comp	# of Cont
CS-1 (2 5')	12/8/2022	-	X		Comp	1
CS-2 (2 5')	12/8/2022	-	X		Comp	1
CS-3 (8')	12/8/2022	-	X		Comp	1
CS-4 (8')	12/8/2022	-	X		Comp	1
CS-5 (8')	12/8/2022	-	X		Comp	1
SW-1 (2 5')	12/8/2022	-	X		Comp	1
SW-2 (2 5')	12/8/2022	-	X		Comp	1
SW-3 (2 5')	12/8/2022	-	X		Comp	1
SW-4 (8')	12/8/2022	-	X		Comp	1
SW-5 (8')	12/8/2022	-	X		Comp	1

ANALYSIS REQUEST		PRESERVATIVE CODES	
None		None	
Cool		Cool	
HCL		HCL	
H ₂ SO ₄		H ₂ SO ₄	
H ₃ PO ₄		H ₃ PO ₄	
NaHSO ₄		NaHSO ₄	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Zn Acetate+NaOH		Zn Acetate+NaOH	
NaOH+Ascorbic Acid		NaOH+Ascorbic Acid	
SAPC		SAPC	

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ JRC ☐ Superfund	
State of Project	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV	
Deliverables EDD ☐ ADaPT ☐ Other	

Comments:	
Relinquished by (Signature)  Received by (Signature)  Date/Time 12/9/22 Date/Time 9:01	

Work Order No:

Page 2 of 2

Project Manager Conner Mohering		Bill to (if different) Jacqui Harris	
Company Name Carmona Resources		COG	
Address 310 W Wall St Ste 415		15 W London Rd	
City, State ZIP Midland, TX 79701		Loving, NM 88256	
Phone 432-813-9044		Email jacqui.harris@conocophillips.com	

Project Name Diamondback		Turn Around ☐ Routine ☒ Rush		Pres. Code	
Project Number 1100		Due Date 24 hr			
Project Location Eddy Co. NM					
Sampler's Name GPJ					
PO #					
SAMPLE RECEIPT					
Received Intact		Temp Blank.		Yes No	
Cooler Custody Seals		Yes No		Thermometer ID	
Sample Custody Seals		Yes No		Correction Factor	
Total Containers		Yes No		Temperature Reading	
		Corrected Temperature			

Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont	
SW-6 (8')		12/8/2022		-		X		X		Comp		1	
SW-7 (8')		12/8/2022		-		X		X		Comp		1	
SW-8 (8')		12/8/2022		-		X		X		Comp		1	
SW-9 (8')		12/8/2022		-		X		X		Comp		1	
SW-10 (2 5')		12/8/2022		-		X		X		Comp		1	
SW-11 (2 5')		12/8/2022		-		X		X		Comp		1	
SW-12 (5 5')		12/8/2022		-		X		X		Comp		1	

ANALYSIS REQUEST		Parameters		TPH 8021B (GRO + DRO + MRO)		Chloride 300.0		HOLD		Preservative Codes	
										None NO	
										DI Water: H ₂ O	
										Cool Cool	
										MeOH Me	
										HCL HC	
										HNO ₃ HN	
										H ₂ SO ₄ H ₂	
										NaOH Na	
										H ₃ PO ₄ HP	
										NaHSO ₄ NABIS	
										Na ₂ S ₂ O ₃ NaSO ₃	
										Zn Acetate+NaOH Zn	
										NaOH+Ascorbic Acid SAPC	
										Sample Comments	

Loc: 880
22521

Comments:		Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
				12/9/22					
				901					

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-22521-1

SDG Number: Eddy Co, NM

Login Number: 22521**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	

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 175538

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 175538
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	2/1/2023