

SITE INFORMATION

Closure Report
Benson Shugart Waterflood Unit #023
Incident #: NMCS0124832969
Eddy County, New Mexico
Unit J Sec 25 T18S R30E
32.715744°, -103.9223175°

Produced Water Release
Point of Release: Corrosion in injection line
Release Date: 07.05.2001
Volume Released: 333 Barrels of Produced Water
Volume Recovered: 0 Barrels of Produced Water

CARMONA RESOURCES



Prepared for: Chevron U.S.A., Inc. 6301 Deauville Blvd Midland, Texas 79706

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



TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 RECLAMATION ACTIVITIES

7.0 CONCLUSIONS

FIGURES

FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION FIGURE 4A – 4B EXCAVATION

FIGURE 5 RECLAMATION AREA

APPENDICES

APPENDIX A TABLES

APPENDIX B PHOTOS

APPENDIX C NMOCD CORRESPONDENCE

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS



April 22, 2025

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

Re: Closure Report

Benson Shugart Waterflood Unit #023 Incident ID: NMCS0124832969 Chevron U.S.A., Inc. Site Location: Unit J, S25, T18S, R30E (Lat 32.715744°, Long -103.9223175°) Eddy County, New Mexico

Mr. Bratcher:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document site assessment and remediation activities for the Benson Shugart Waterflood Unit #023. The site is located at 32.715744°, -103.9223175° within Unit J, S25, T18S, R30E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the information obtained from the NMOCD portal, the release was discovered on July 5, 2001, caused by corrosion in an injection line releasing approximately three-hundred thirty-three (333) barrels of produced water, of which zero (0) barrels of produced water were recovered. The NMOCD correspondence is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.89 miles West of the site in Unit P, S26, T18S, R30E and was drilled in 1968. The well has a reported depth to groundwater of 204.60' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Site Assessment Activities

Initial Assessment

On March 4, 2025, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release utilizing an air rotary rig. A total of six (6) soil samples (S-1 through S-6), and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 7' bgs in the areas requested by the NMOCD during previous communications. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and Chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved in all areas for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 1.

Horizontal Delineation

Horizontal delineation was achieved in all areas for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

Between March 25, 2025, and March 28, 2025, 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 NMOCD portal on March 24, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 5.5'-5.75' bgs, and the area of S-6 was excavated to a depth of 4.5' bgs. A total of twenty-one (21) confirmation floor samples were collected (CS-1 through CS-21), 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. 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 Cardinal Laboratories in Hobbs, New Mexico. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figures 4A and 4B.

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

Before the excavation was backfilled, a composite sample of the backfill material was collected on March 28, 2025, to ensure the material was clean per NMOCD standards. The backfill material was sourced from the Stockton Pit located at 32.7148476°, -103.9422935°. Refer to Table 2. Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 3,900 square feet of contamination was remediated, resulting in 853 cubic yards of material excavated and transported offsite for proper disposal.

6.0 Reclamation Activities

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. On April 18, 2025, the backfilled areas in the pasture were seeded via hand distribution with the appropriate pounds of pure live seed per acre. The seed mixture used was BLM #2 LPC Seed Mixture. Approximately 40,000 square feet of the site was reclaimed. See Figure 5 for the reclamation area.



7.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Ashton Thielke

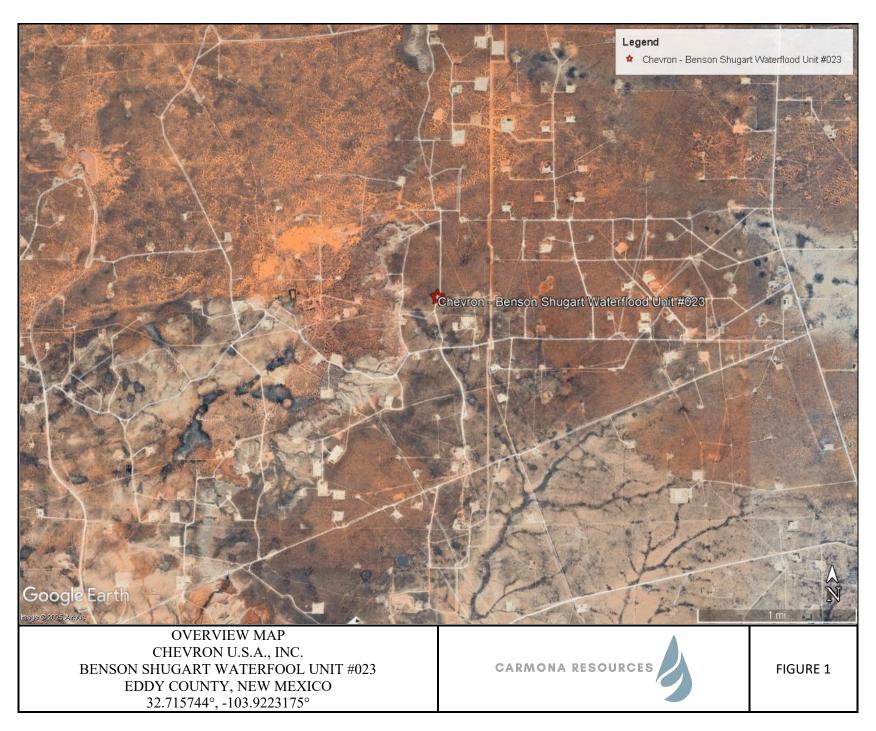
Environmental Manager

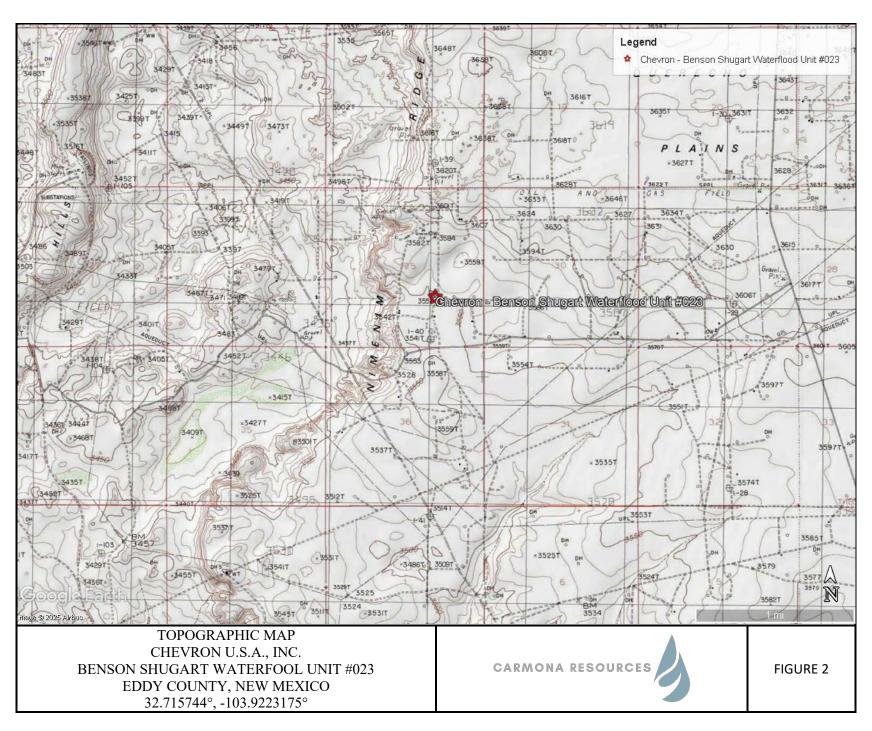
Gilbert Priego Project Manager

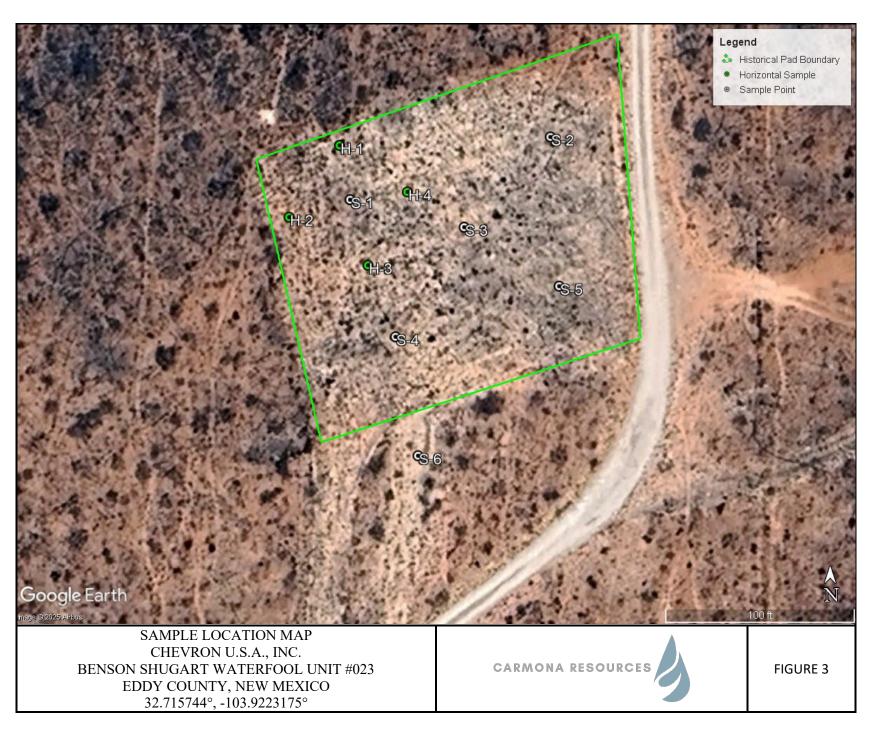
Riley Plogger Riley Plogger

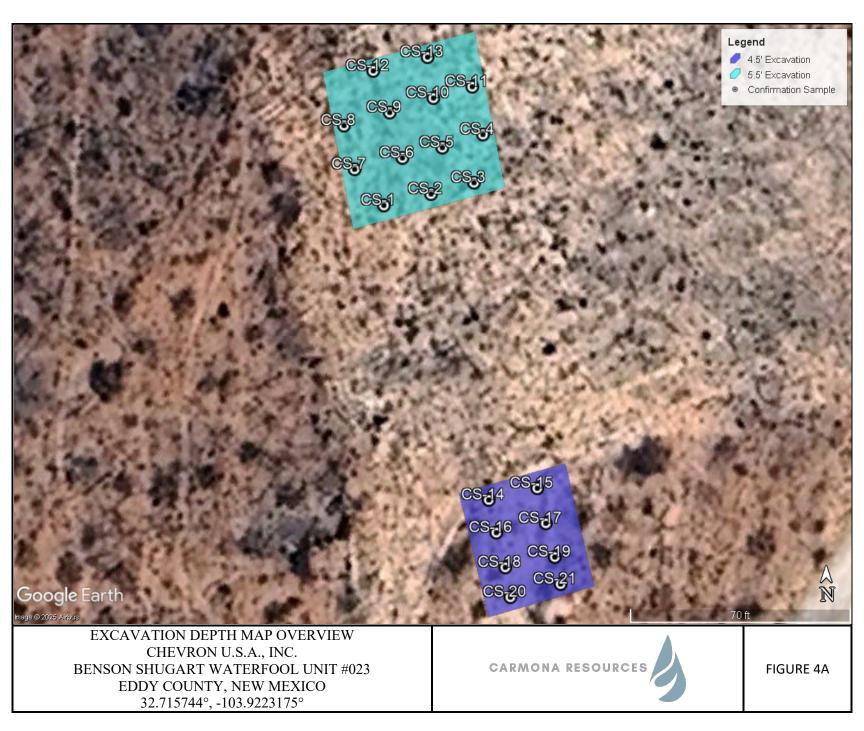
Project Manager

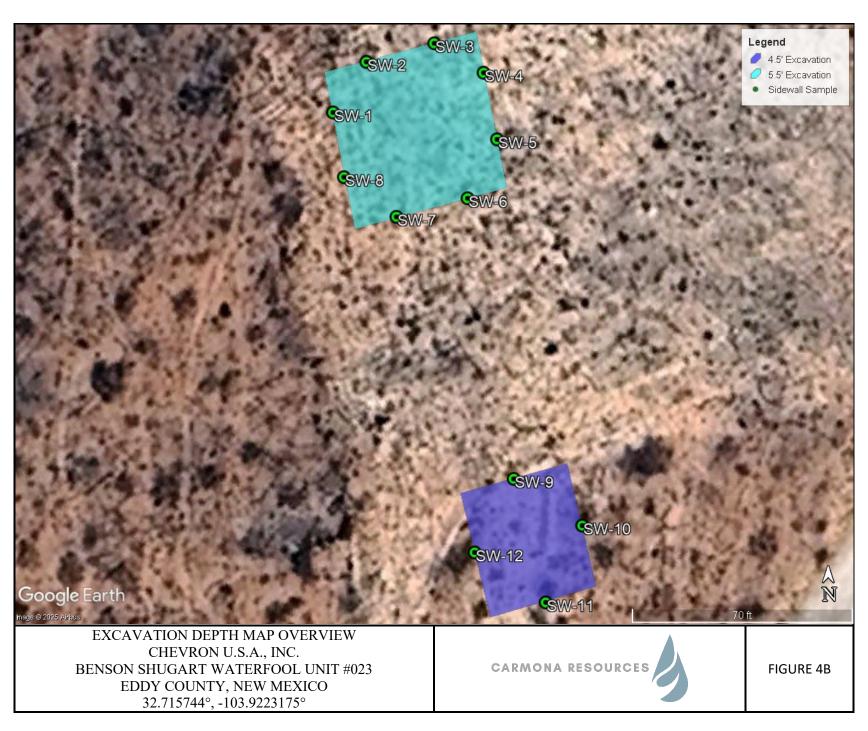
FIGURES













APPENDIX A

Table 1 Chevron Benson Shugart Waterflood Unit #023 Eddy County, New Mexico

S-1 S-2	0	D. C.	D (1) (6)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
S-1 1.5'	Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
S-1 *** 2.0'		3/4/2025	0-1.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	10.7
S-1 3.0' <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0		"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	451
S-1 3.0		"	2.0'	<49.9	197	<49.9	197	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	560
**	S-1	"	3.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	488
\$-2 Solution Solu	0-1	"	4.0'	<49.8	399	<49.8	399	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	1,020
8-2 3/4/2025		"	5.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,860
S-2 3/4/2025 0-1.0' <50.0 <50.0 <50.0 <50.0 <0.00201 <0.00201 <0.00201 <0.00402 <0.00402 16.6 " 1.5' <49.8		"	6.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	0.00708	<0.00200	0.0109	0.0180	50.9
S-2 " 1.5" <49.8 <49.8 <49.8 <49.8 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <0.00200 <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 34.1 " 3.0" <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 35.9 " 4.0" <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 32.9 " 5.0" <49.7 <49.7 <49.7 <49.7 <49.7 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <22.2 3/4/2025 0-1.0" <49.8 <49.8 <49.8 <49.8 <49.8 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9		"	7.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	0.00600	<0.00198	0.00740	0.0134	15.3
S-2 1.5		3/4/2025	0-1.0'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.6
S-2 3.0'		"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	23.0
** 3.0'	6.2	"	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	34.1
8-3 4.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00198 <0.00397 <0.00397 <10.0 " 1.5' <49.9	3-2	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	35.9
S-3 249.7 249.7 249.7 249.7 20.00199 20.00199 20.00199 20.00199 20.00199 20.00199 20.00398 22.2 3/4/2025 0-1.0' <49.8		"	4.0'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	32.9
*** 1.5' <49.9 <49.9 <49.9 <0.00200 <0.00200 <0.00200 <0.00401 <0.00401 <10.0 *** 2.0' <50.0		"	5.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.2
S-3 1.5 249.9 2		3/4/2025	0-1.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<10.0
S-3 " 3.0' <49.8 <49.8 <49.8 <49.7 <49.7 <49.7 <49.7 <49.7 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 60.5 " 5.0' <50.0 <50.0 <50.0 <50.0 <50.0 <0.00198 <0.00198 <0.00198 <0.00198 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398		"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<10.0
" 3.0' <49.8 <49.8 <49.8 <0.00198 <0.00198 <0.00198 <0.00396 <0.00396 91.1 " 4.0' <49.7	6.2	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.1
" 5.0' <50.0 <50.0 <50.0 <50.0 <0.00198 <0.00198 <0.00198 <0.00397 <0.00397 33.7	3-3	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	91.1
		"	4.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	60.5
Parallel 10 mg/kg 40 mg/kg 40 mg/kg		"	5.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	33.7
Regulatory Criteria ^A 100 mg/kg 10 mg/kg 10 mg/kg 50 mg/kg 600 mg/kg	Regulator	ry 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

Removed

Table 1 Chevron Benson Shugart Waterflood Unit #023 Eddy County, New Mexico

Commis ID	Dete	D = 11-41- (54)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
	3/4/2025	0-1.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.98
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	19.6
S-4	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	71.7
3-4	"	3.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	55.1
	"	4.0'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	46.3
	"	5.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.8
	3/4/2025	0-1.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.1
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.1
S-5	"	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	32.3
3-3	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	141
	"	4.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	136
	"	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	110
	3/4/2025	0-1.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.0
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	81.4
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	157
S-6	"	3.0'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	605
	"	4.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	737
	"	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	532
	"	6.0'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	409
	ory 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

Removed

Table 1 Chevron

Benson Shugart Waterflood Unit #023 Eddy County, New Mexico

Commis ID	D. I	D (1) (60)		TPH	(mg/kg)		Benzene (mg/kg)	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total		(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
H-1	3/4/2025	0-0.5'	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	0.0466	<0.00398	0.0466	<9.94
H-2	3/4/2025	0-0.5'	<50.0	50.0 <50.0 <50.0		<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.90
H-3	3/4/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<9.98
H-4	3/4/2025	0-0.5'	<49.9 <49.9 <49.9		<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<10.1	
Regulato				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

(H) Horzontal Sample

Table 2
Chevron
Benson Shugart Waterflood Unit #023
Eddy County, New Mexico

Sample ID	Date	Depth (ft)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Cample 15	Date	Deptii (it)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
CS-2	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
CS-3	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
CS-4	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-5	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
CS-6	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
CS-7	3/27/2025	5.5'	<10.0	<10.0	19.4	19.4	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-8	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-9	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-10	3/27/2025	5.5'	<10.0	71.9	118	190	<0.050	<0.050	<0.050	<0.150	<0.300	176
	3/28/2025	5.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-11	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-12	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-13	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-14	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-15	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-16	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-17	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-18	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-19	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-20	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-21	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
Backfill Sample	3/28/2025	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	ry 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

Removed

Table 2
Chevron
Benson Shugart Waterflood Unit #023
Eddy County, New Mexico

O a marila ID	D. C.	D (1) (6)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO			(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
SW-1	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
SW-2	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
SW-3	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
SW-4	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
SW-5	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-6	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
SW-7	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
SW-8	3/27/2025	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
SW-9	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-10	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-11	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-12	3/27/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
Regulator				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
(SW) Sidewall Sample

APPENDIX B

Chevron U.S.A., Inc.

Photograph No. 1

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View West, area of CS-1 through CS-13.



Photograph No. 2

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View North, area of CS-1 through CS-13.



Photograph No. 3

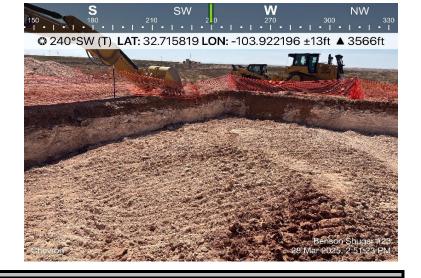
Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-1 through CS-13.





Chevron U.S.A., Inc.

Photograph No. 4

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-14 through CS-21.



Photograph No. 5

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-14 through CS-21.



Photograph No. 6

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-14 through CS-21.





Chevron U.S.A., Inc.

Photograph No. 7

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Southwest of Backfill area.



Photograph No. 8

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View North of Backfill area.



Photograph No. 9

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Northeast of Backfill area.





Chevron U.S.A., Inc.

Photograph No. 10

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Northwest of Backfill area.



Photograph No. 11

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Northeast of Backfill area.



Photograph No. 12

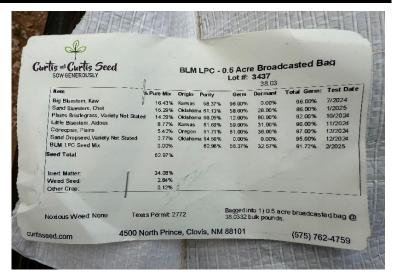
Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View of seed mixture.





Chevron U.S.A., Inc.

Photograph No. 13

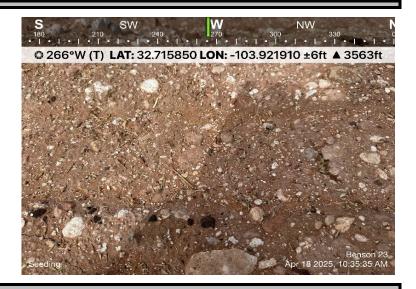
Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View West, close-up of seed mixture in ground.



Photograph No. 14

Facility: Benson Shugart Waterflood Unit

#023

County: Eddy County, New Mexico

Description:

View Southwest of reseeded area.





APPENDIX C

Ashton Thielke

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Sent: Wednesday, February 19, 2025 10:12 AM

To: Ashton Thielke Cc: Barnhill, Amy

Subject: RE: [EXTERNAL] BENSON SHUGART WATERFLOOD UNIT #023 (09.06.2001) -

nMCS0124832969 - Site Assessment Plan

Thanks Ashton. I forgot to include that a copy of the plan and the approval needs to be submitted with the next C-141 report.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Ashton Thielke <ThielkeA@carmonaresources.com>

Sent: Wednesday, February 19, 2025 9:04 AM

To: Hall, Brittany, EMNRD < Brittany, Hall@emnrd.nm.gov>

Cc: Barnhill, Amy <ABarnhill@chevron.com>

Subject: RE: [EXTERNAL] BENSON SHUGART WATERFLOOD UNIT #023 (09.06.2001) - nMCS0124832969 - Site

Assessment Plan

Thanks Brittany,

Received and will get started on this project in the coming weeks!

Ashton Thielke
Environmental Manager
310 West Wall Street, Suite 500
Midland TX, 79701

M: 432-813-8988 C: 281-753-5659 ThielkeA@carmonaresources.com

Environmental Consulting Firm - Carmona Resources



From: Hall, Brittany, EMNRD < Brittany.Hall@emnrd.nm.gov>

Sent: Wednesday, February 19, 2025 10:01 AM

To: Ashton Thielke < Thielke <a href="mailto:Thielke

Cc: Barnhill, Amy < ABarnhill@chevron.com >

Subject: RE: [EXTERNAL] BENSON SHUGART WATERFLOOD UNIT #023 (09.06.2001) - nMCS0124832969 - Site

Assessment Plan

Ashton,

OCD approves the sampling plan with the following conditions:

 OCD is requesting one additional borehole to be investigated marked by the red X that can be seen on the snip of the provided map below. This borehole must be collected in the same manner as proposed in the sampling plan.



- If these samples are intended to be used as remediation closure samples (i.e. no contamination is found during the assessment), a C-141N must be submitted at least 2 business days prior to the samples being collected.
- Based on research that I have done, the closure criteria for this release will be the most stringent closure criteria (depth to groundwater is less than 50 feet) found on Table I of 19.15.29 NMAC as there are no groundwater wells within 0.5 miles of the site.
- All sample points must have samples collected at 0-1', 1.5', 2', 3', and 4' bgs, or deeper until any contamination is fully delineated. Auger refusal will not be accepted as a reason to not sample at all depths.
- If contamination above the closure criteria is discovered, it must be delineated, both horizontally and vertically, and remediated to the most stringent closure criteria.
- At this time, OCD will not approve a variance for the reclamation and revegetation of this incident. If no contamination is found during the assessment, please resend a variance request for the requirements of 19.15.29.13 NMAC at that time. Please remember that the variance request must comply with the requirements of 19.15.29.14 A. (1) and (2) NMAC which states "A responsible party may file a written

request for a variance from any requirement of 19.15.29 NMAC with the appropriate division district office. The variance request must include: (1) a detailed statement explaining the need for a variance; and (2) a detailed written demonstration that the variance will provide equal or better protection of fresh water, public health and the environment." If contamination is found during the assessment, a variance will not be approved as any contamination must be remediated, reclaimed, and revegetated pursuant to 19.15.29 NMAC.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Ashton Thielke < ThielkeA@carmonaresources.com >

Sent: Tuesday, February 18, 2025 8:17 AM

To: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov >

Cc: Barnhill, Amy < ABarnhill@chevron.com >

Subject: [EXTERNAL] BENSON SHUGART WATERFLOOD UNIT #023 (09.06.2001) - nMCS0124832969 - Site Assessment

Plan

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

Good morning Brittany,

Please see the attached Proposed Sampling Map (Historical & Current Views) as well as some photos attached from our recent site visit (to mark out for a NM811-one call)

We are proposing to sample until we reach a depth of 4.0' or until we delineate any contamination found onsite that exceeds concentrations found on table 1 of NMAC 19.15.29.12/13.

If any contamination is found, vertically & horizontally delineate that area and remediate per NMAC 19.15.29.12/13.

Based off of the current site conditions and knowing that this site has been reclaimed since its P/A in 2015, we would like to request an approval of reclamation and revegetation for this spill incident as there is good evidence of plant life regrown to meet the surrounding area.

This would be documented in the closure report if no contamination is found.

If contamination is found, we will remediate and reclaim per NMAC 19.15.29.12/13.

Please let me know if have any questions!

Thanks!

Ashton Thielke
Environmental Manager
310 West Wall Street, Suite 500
Midland TX, 79701

M: 432-813-8988 C: 281-753-5659

Environmental Consulting Firm - Carmona Resources





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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 444990

QUESTIONS

ı	Operator:	OGRID:
ı	CHEVRON U S A INC	4323
ı	6301 Deauville Blvd	Action Number:
ı	Midland, TX 79706	444990
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMCS0124832969
Incident Name	NMCS0124832969 2001 MAJOR A OHR @ 30-015-04544
Incident Type	Other
Incident Status	Closure Not Approved
Incident Well	[30-015-04544] BENSON SHUGART WATERFLOOD UNIT #023

Location of Release Source										
Site Name	Unavailable.									
Date Release Discovered	07/05/2001									
Surface Owner	Federal									

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,900
What is the estimated number of samples that will be gathered	28
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.715744,-103.9223175) Carmona Resources will be onsite to conduct composite confirmation sampling from 03.27.2025 and will continue until 03.28.2025."

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 444990

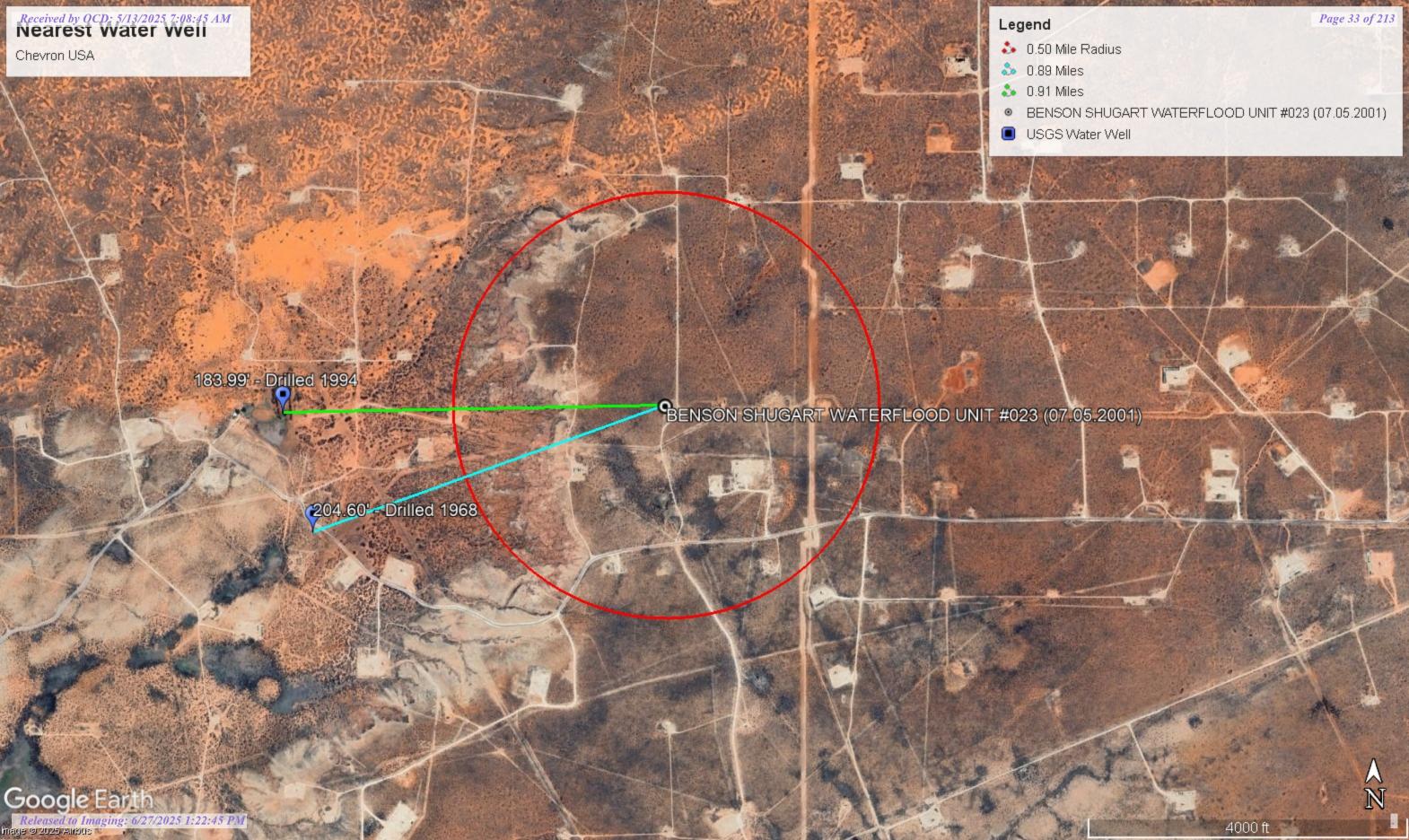
CONDITIONS

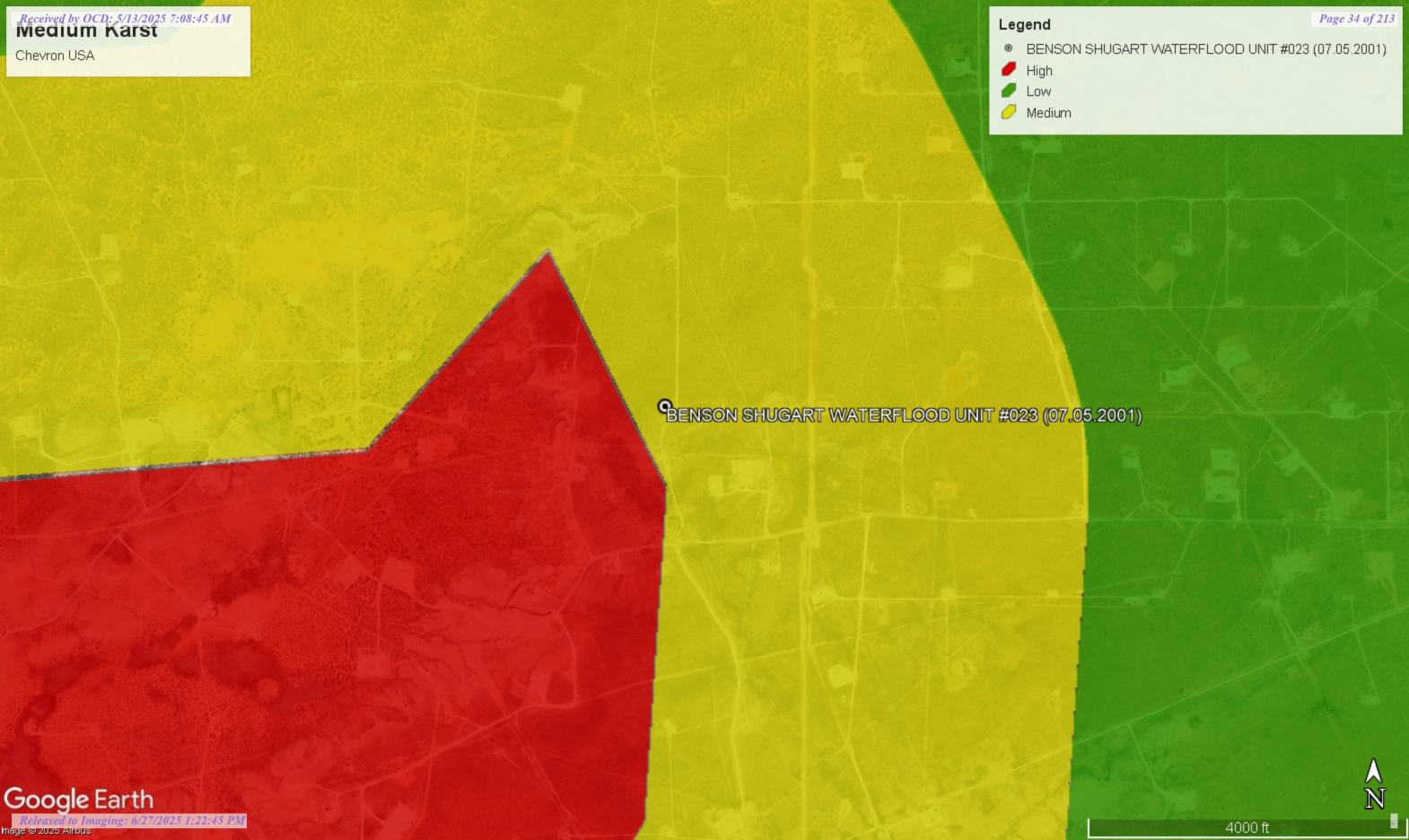
Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd Midland, TX 79706	Action Number: 444990
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By		Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/24/2025

APPENDIX D







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 smallest to largest)

st to t) (meters)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance		Water Column
<u>CP 00818 POD1</u>		CP	LE		NW	SE	26	18S	30E	599289.0	3620364.0 *	•	1709	240	
<u>CP 00767 POD1</u>		CP	ED		SW	NE	35	18S	30E	599300.0	3619158.0 *	•	2038	500	

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

(In feet)

Maximum Depth: 0 feet

Record Count: 2

UTM Filters (in meters):

Easting: 600996.68 **Northing:** 3620288.41

Radius: 4000

* UTM location was derived from PLSS - see Help

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



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater ✓ Geographic Area:

New Mexico ✓ GO

Click to hideNews Bulletins

 Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.

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 =

• 324241103561201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324241103561201 18S.30E.26.4140

Eddy County, New Mexico

Latitude 32°42'41", Longitude 103°56'12" NAD27

Land-surface elevation 3,432 feet above NAVD88

The depth of the well is 230 feet below land surface.

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

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

					Output for	mats				
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 (measure
1968-03-0		D	62610		3225.86	NGVD29	1		Z	
							1			
1968-03-0		D	62611		3227.40	NAVD88	1		Z _	
1968-03-0	17	D	72019	204.60			1		Z	

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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments

<u>Help</u>

Data Tips

Explanation of terms

Subscribe for system changes

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: 2025-03-12 09:56:56 EDT

0.31 0.23 nadww01





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 <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.

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 =

• 324244103561601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324244103561601 18S.30E.26.414144

Eddy County, New Mexico

<u>Table of data</u>

<u>Tab-separated data</u>

Latitude 32°42'55.8", Longitude 103°56'16.4" NAD83

Land-surface elevation 3,431 feet above NAVD88

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

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

<u>Reselect per</u>	<u>riod</u>									
Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1976-05-28	8	D	62610		3235.07	NGVD29	1		<u> </u>	
1976-05-28	8	D	62611		3236.61	NAVD88	1	2	7	
1976-05-2	8	D	72019	194.39			1		7_	
1983-04-1	2	D	62610		3243.42	NGVD29	1	2	7_	
1983-04-1	2	D	62611		3244.96	NAVD88	1	2	7_	
1983-04-1	2	D	72019	186.04			1	2	7_	
1990-10-1	0	D	62610		3246.44	NGVD29	1	9	6	
1990-10-1	0	D	62611		3247.98	NAVD88	1	9	6	
1990-10-1	0	D	72019	183.02			1	9	6	
1994-03-1	6	D	62610		3245.47	NGVD29	1	9	6	
1994-03-10	6	D	62611		3247.01	NAVD88	1	9	6	
1994-03-1	6	D	72019	183.99			1	9	5	

Explanation

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

Questions or Comments

<u>Help</u>

Data Tips **Explanation of terms**

Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

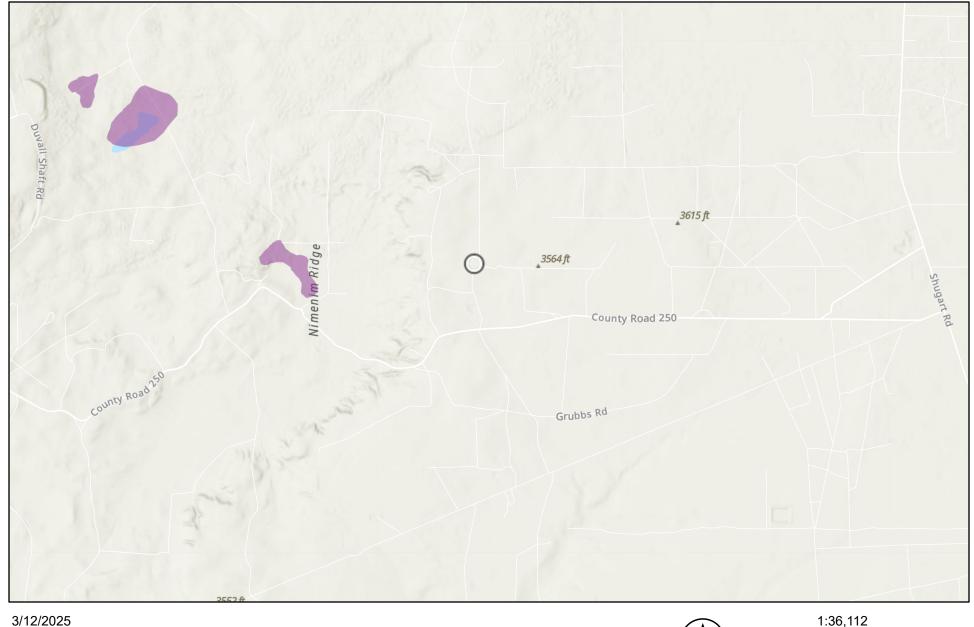
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2025-03-12 09:55:27 EDT

0.32 0.24 nadww01



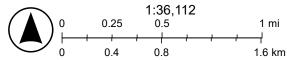
BENSON SHUGART WATERFLOOD UNIT #023 (07.05.2001)



USA Flood Hazard Areas

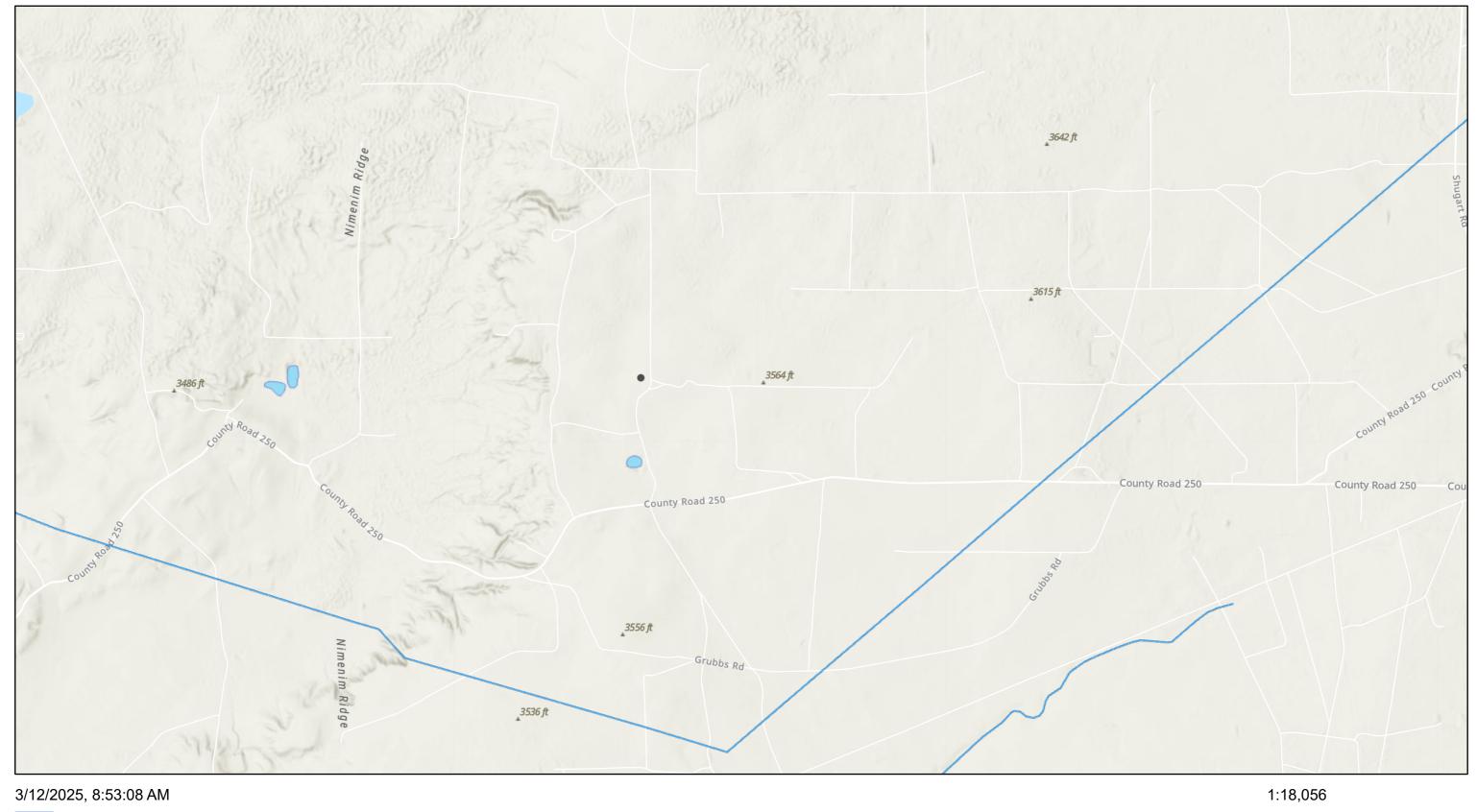
1% Annual Chance Flood Hazard

World_Hillshade



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User

BENSON SHUGART WATERFLOOD UNIT #023 (07.05.2001)



OSW Water Bodys

OSE Streams

1:18,056 0 0.17 0.35 0.7 mi 0 0.3 0.6 1.2 km

Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, NM OSE

APPENDIX E

CARMONA RESOURCES

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701

Generated 3/12/2025 4:38:15 PM

JOB DESCRIPTION

Benson Shugart Waterflood #23 Eddy Co NM

JOB NUMBER

880-55262-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 3/12/2025 4:38:15 PM

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

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

Released to Imaging: 6/27/2025 1:22:45 PM

Client: Carmona Resources Project/Site: Benson Shugart Waterflood #23 Laboratory Job ID: 880-55262-1 SDG: Eddy Co NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	39
QC Sample Results	42
QC Association Summary	56
Lab Chronicle	66
Certification Summary	78
Method Summary	79
Sample Summary	80
Chain of Custody	81
Receipt Checklists	86

3

5

7

8

10

11

13

14

Definitions/Glossary

Job ID: 880-55262-1 Client: Carmona Resources Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

Qualifiers

GC VOA

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

GC Semi VOA

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

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**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI 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 Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

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 Job ID: 880-55262-1

Project: Benson Shugart Waterflood #23

Eurofins Midland Job ID: 880-55262-1

Job Narrative 880-55262-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/5/2025 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104609 and analytical batch 880-104771 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (880-55262-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-104474 and 880-104611 and analytical batch 880-104647 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-3 (880-55262-28) and S-5 (880-55262-40). 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.

Diesel Range Organics

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: S-5 (880-55262-39) and S-5 (880-55262-41). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: S-6 (880-55262-46). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104566 and analytical batch 880-104999 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104566 and analytical batch 880-104999 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104631 and analytical batch 880-104783 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Case Narrative

Client: Carmona Resources

Project: Benson Shugart Waterflood #23

Job ID: 880-55262-1

Job ID: 880-55262-1 (Continued)

Eurofins Midland

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

3

4

ا

9

4 4

12

13

114

Matrix: Solid

Client Sample Results

Client: Carmona Resources

Job ID: 880-55262-1 Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

Lab Sample ID: 880-55262-1

Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		03/06/25 11:49	03/09/25 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				03/06/25 11:49	03/09/25 04:36	1
1,4-Difluorobenzene (Surr)	95		70 - 130				03/06/25 11:49	03/09/25 04:36	1
Method: TAL SOP Total BTEX - Analyte Total BTEX	Result	Qualifier		MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	<0.00399	Qualifier U	0.00399	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/09/25 04:36	Dil Fac
	Result <0.00399	Qualifier U	0.00399			<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00399	Qualifier U ics (DRO) (Qualifier	0.00399 GC)		mg/Kg		· ·	03/09/25 04:36	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00399 el Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	0.00399 GC) RL 49.8		mg/Kg		· ·	03/09/25 04:36 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00399 el Range Organ Result <49.8 sel Range Orga	Qualifier U ics (DRO) (Qualifier U	0.00399 GC) RL 49.8		mg/Kg Unit mg/Kg		· ·	03/09/25 04:36 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	Result <0.00399 el Range Organ Result <49.8 sel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00399 GC) RL 49.8 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	03/09/25 04:36 Analyzed 03/06/25 21:44	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result <49.8 sel Range Orga Result Result Result Result Result Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00399 GC) RL 49.8 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	03/09/25 04:36 Analyzed 03/06/25 21:44 Analyzed	Dil Fac

Method: EPA 300.0 - Anions, Ion C	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	RL	MDL	Unit	D	Prepared	Analyzed					
Chloride	10.7		9.92		mg/Kg			03/09/25 11:40				

Limits

70 - 130

70 - 130

Client Sample ID: S-1 Lab Sample ID: 880-55262-2

%Recovery Qualifier

95

86

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 1.5'

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 11:49	03/09/25 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/25 11:49	03/09/25 04:56	1

Eurofins Midland

Dil Fac

Dil Fac

Matrix: Solid

Analyzed

03/06/25 21:44

03/06/25 21:44

Prepared

03/06/25 09:17

03/06/25 09:17

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 1.5'

Lab Sample ID: 880-55262-2

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 03/06/25 11:49 1,4-Difluorobenzene (Surr) 88 03/09/25 04:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00404 0.00404 03/09/25 04:56 mg/Kg

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

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 49.9 03/06/25 22:00 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.9 U mg/Kg 03/06/25 09:17 03/06/25 22:00 Gasoline Range Organics 49.9 (GRO)-C6-C10 <49.9 U 49.9 03/06/25 09:17 03/06/25 22:00 Diesel Range Organics (Over mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 03/06/25 09:17 03/06/25 22:00

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 106 70 - 130 03/06/25 09:17 03/06/25 22:00 03/06/25 22:00 97 70 - 130 03/06/25 09:17 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 10.1 03/09/25 11:47 Chloride 451 mg/Kg

Client Sample ID: S-1 Lab Sample ID: 880-55262-3

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 2'

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 03/06/25 11:49 03/09/25 05:16 Toluene <0.00202 U 0.00202 03/06/25 11:49 03/09/25 05:16 mg/Kg Ethylbenzene <0.00202 U 0.00202 03/06/25 11:49 03/09/25 05:16 mg/Kg 0.00404 03/09/25 05:16 m-Xylene & p-Xylene <0.00404 U 03/06/25 11:49 mg/Kg o-Xylene <0.00202 U 0.00202 mg/Kg 03/06/25 11:49 03/09/25 05:16 Xylenes, Total <0.00404 U 0.00404 mg/Kg 03/06/25 11:49 03/09/25 05:16 Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed

118 70 - 130 4-Bromofluorobenzene (Surr) 03/06/25 11:49 03/09/25 05:16 1,4-Difluorobenzene (Surr) 86 70 - 130 03/06/25 11:49 03/09/25 05:16

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00404 0.00404 03/09/25 05:16 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 03/06/25 22:16 **Total TPH** 49.9 197 mg/Kg

Eurofins Midland

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-3

Matrix: Solid

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:17	03/06/25 22:16	1
Diesel Range Organics (Over C10-C28)	197		49.9		mg/Kg		03/06/25 09:17	03/06/25 22:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:17	03/06/25 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/06/25 09:17	03/06/25 22:16	1
o-Terphenyl	93		70 - 130				03/06/25 09:17	03/06/25 22:16	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			9.98		mg/Kg			03/09/25 12:05	

Lab Sample ID: 880-55262-4 Client Sample ID: S-1 **Matrix: Solid**

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Sample Depth: 3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:49	03/09/25 05:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				03/06/25 11:49	03/09/25 05:37	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/06/25 11:49	03/09/25 05:37	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 05:37	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/25 22:33	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 22:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 22:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/06/25 09:17	03/06/25 22:33	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-1

Date Collected: 03/04/25 00:00

Lab Sample ID: 880-55262-4

Date Received: 03/05/25 16:08

Matrix: Solid

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qua	alifier RL	MDL U	Unit D	Prepared	Analyzed	Dil Fac		
Chloride	488	9.90	n	mg/Kg		03/09/25 12:11	1		

Client Sample ID: S-1 Lab Sample ID: 880-55262-5

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Method: TAL SOP Total BTEX - Total BTEX Calculation

Matrix: Solid

Analyzed

Dil Fac

Sample Depth: 4'

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 11:49	03/09/25 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/25 11:49	03/09/25 05:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/06/25 11:49	03/09/25 05:57	1

Total TPH	399		49.8		mg/Kg			03/06/25 22:49	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel R	Range Organi	cs (DRO) (0	GC)						
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/09/25 05:57	1

RL

MDL Unit

Prepared

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 22:49	1
Diesel Range Organics (Over C10-C28)	399		49.8		mg/Kg		03/06/25 09:17	03/06/25 22:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 22:49	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/06/25 09:17	03/06/25 22:49	1
o-Terphenyl	96		70 - 130				03/06/25 09:17	03/06/25 22:49	1

Method: EPA 300.0 - Anions, Ion Chro	omatography - Sol	uble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020	10.0	mg/Kg			03/09/25 12:17	1

Client: Carmona Resources

Date Received: 03/05/25 16:08

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-1 Lab Sample ID: 880-55262-6 Date Collected: 03/04/25 00:00

Matrix: Solid

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 11:49	03/09/25 06:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				03/06/25 11:49	03/09/25 06:18	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/06/25 11:49	03/09/25 06:18	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mothodi CIMO46 004E NIM Dicos	. I D								
Method: SW846 8015 NM - Diese			•	MDI	1114	_	Dunnanad	Amalamad	D!! F
Analyte		Qualifier	RL 49.7	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/06/25 23:04	
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.7	Qualifier U	RL 49.7	MDL MDL	mg/Kg	D_	Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.7	Qualifier Unics (DRO) Qualifier	RL 49.7		mg/Kg	=	<u> </u>	03/06/25 23:04	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC) RL 49.7		mg/Kg Unit mg/Kg	=	Prepared 03/06/25 09:17	03/06/25 23:04 Analyzed 03/06/25 23:04	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.7 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)		mg/Kg	=	Prepared	03/06/25 23:04 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC) RL 49.7		mg/Kg Unit mg/Kg	=	Prepared 03/06/25 09:17	03/06/25 23:04 Analyzed 03/06/25 23:04	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/06/25 09:17 03/06/25 09:17	03/06/25 23:04 Analyzed 03/06/25 23:04 03/06/25 23:04	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7 49.7		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/06/25 09:17 03/06/25 09:17	03/06/25 23:04 Analyzed 03/06/25 23:04 03/06/25 23:04	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.7	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/06/25 09:17 03/06/25 09:17 03/06/25 09:17 Prepared	03/06/25 23:04 Analyzed 03/06/25 23:04 03/06/25 23:04 03/06/25 23:04 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/06/25 09:17 03/06/25 09:17 03/06/25 09:17 Prepared 03/06/25 09:17	03/06/25 23:04 Analyzed 03/06/25 23:04 03/06/25 23:04 Analyzed 03/06/25 23:04	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 03/06/25 09:17 03/06/25 09:17 03/06/25 09:17 Prepared 03/06/25 09:17	03/06/25 23:04 Analyzed 03/06/25 23:04 03/06/25 23:04 Analyzed 03/06/25 23:04	Dil Fac 1 1 1 Dil Fac

Client Sample ID: S-1 Lab Sample ID: 880-55262-7

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
Toluene	0.00708		0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
m-Xylene & p-Xylene	0.00788		0.00399		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
o-Xylene	0.00300		0.00200		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
Xylenes, Total	0.0109		0.00399		mg/Kg		03/06/25 11:49	03/09/25 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				03/06/25 11:49	03/09/25 06:38	1

Eurofins Midland

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Lab Sample ID: 880-55262-7

Matrix: Solid

Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 6'

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

Surrogate		ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91	70 - 130	03/06/25 11:49	03/09/25 06:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0180		0.00399		mg/Kg			03/09/25 06:38	1

Method: SW846 8015 NM - Diesel Range Organics (I	DRO) (GCI	ı
incured. Offore out of the Picaci Range Organica (i		,	١.

Analyte	Result	Qualifier	RL	MDL	Unit	[)	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg				03/06/25 23:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 23:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 23:21	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/06/25 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	70 - 130	03/06/25 09:17	03/06/25 23:21	1
o-Terphenyl	94	70 - 130	03/06/25 09:17	03/06/25 23:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9	49.9	mg/Kg			03/09/25 12:29	5

Client Sample ID: S-1 Lab Sample ID: 880-55262-8 **Matrix: Solid**

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
Toluene	0.00600		0.00198		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
m-Xylene & p-Xylene	0.00740		0.00396		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
Xylenes, Total	0.00740		0.00396		mg/Kg		03/06/25 11:49	03/09/25 06:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				03/06/25 11:49	03/09/25 06:59	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/06/25 11:49	03/09/25 06:59	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0134	0.00396	ma/Ka			03/09/25 06:59	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/06/25 23:37	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-8

03/10/25 12:35

Matrix: Solid

Sample Depth: 7'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 23:37	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 23:37	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:17	03/06/25 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/06/25 09:17	03/06/25 23:37	1
o-Terphenyl	97		70 - 130				03/06/25 09:17	03/06/25 23:37	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hv - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 880-55262-19 Client Sample ID: S-2 Matrix: Solid

15.3

9.94

mg/Kg

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:49	03/09/25 07:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				03/06/25 11:49	03/09/25 07:19	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/06/25 11:49	03/09/25 07:19	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/09/25 07:19	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/11/25 17:14	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				03/06/25 09:20	03/11/25 17:14	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-2

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-19 Matrix: Solid

Sample Depth: 0-1'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.6		9.90		mg/Kg			03/09/25 12:54	1

Client Sample ID: S-2 Lab Sample ID: 880-55262-20 **Matrix: Solid**

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 1.5'

Total BTEX

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 11:49	03/09/25 07:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/06/25 11:49	03/09/25 07:39	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/06/25 11:49	03/09/25 07:39	1

Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 17:29	1

0.00401

<0.00401 U

MDL Unit

mg/Kg

Prepared

Analyzed

03/09/25 07:39

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 17:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 17:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/06/25 09:20	03/11/25 17:29	1
o-Terphenyl	82		70 - 130				03/06/25 09:20	03/11/25 17:29	1

Method: EPA 300.0 - Anions, Ion Ch	lethod: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.0		10.0		mg/Kg			03/09/25 13:00	1

Client: Carmona Resources

Date Received: 03/05/25 16:08

Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

Job ID: 880-55262-1

Client Sample ID: S-2 Lab Sample ID: 880-55262-21 Date Collected: 03/04/25 00:00

Matrix: Solid

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				03/06/25 11:54	03/09/25 00:37	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/06/25 11:54	03/09/25 00:37	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	П	0.00399		no a /1/ a			03/09/25 00:37	1
TOTAL DIEX	0.0000	U	0.00399		mg/Kg			03/09/23 00.37	
					mg/Kg			03/09/23 00.37	'
Method: SW846 8015 NM - Diese Analyte	el Range Organ			MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Range Organ Result <49.9	ics (DRO) (Qualifier	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier	GC) RL 49.9		Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	GC) RL 49.9		Unit mg/Kg			Analyzed 03/11/25 17:44	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL		Unit mg/Kg		Prepared	Analyzed 03/11/25 17:44 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <49.9 sel Range Orga Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 03/06/25 09:20	Analyzed 03/11/25 17:44 Analyzed 03/11/25 17:44	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	Company (Company) (Company	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20	Analyzed 03/11/25 17:44 Analyzed 03/11/25 17:44 03/11/25 17:44	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Organ Result 49.9 sel Range Orga Result 49.9 449.9 449.9 449.9 449.9 449.9	Company (Company) (Company	GC) RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20	Analyzed 03/11/25 17:44 Analyzed 03/11/25 17:44 03/11/25 17:44 03/11/25 17:44	1 Dil Fac

Client Sample ID: S-2 Lab Sample ID: 880-55262-22

RL

9.98

Result Qualifier

34.1

MDL Unit

mg/Kg

D

Prepared

Analyzed

03/09/25 13:18

Dil Fac

Date Collected: 03/04/25 00:00 **Matrix: Solid**

Date Received: 03/05/25 16:08

Sample Depth: 3'

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 11:54	03/09/25 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/25 11:54	03/09/25 00:58	1

Job ID: 880-55262-1

Matrix: Solid

Client Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

Lab Sample ID: 880-55262-22

Client Sample ID: S-2

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 3'

Method:	SW846	8021B -	Volatile Ord	ganic Com	pounds (GC)	(Continued)	
moundan			TOIGHT OF	garno com	pouriuo ((Continuou)	,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	106	70 - 130	03/06/25 11:54	03/09/25 00:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404 U	0.00404	mg/Kg			03/09/25 00:58	1

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

Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	n	ng/Kg			03/11/25 16:29	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 F1	49.8		mg/Kg		03/06/25 09:20	03/11/25 16:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 16:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82	70 - 130	03/06/25 09:20	03/11/25 16:29	1
o-Terphenyl	86	70 - 130	03/06/25 09:20	03/11/25 16:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.9		10.0		mg/Kg			03/09/25 13:24	1

Client Sample ID: S-2 Lab Sample ID: 880-55262-23

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 4'

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

Michiga. Offoro COZ ID - Volati	ne organie oomp	ounus (CC)	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 11:54	03/09/25 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				03/06/25 11:54	03/09/25 01:18	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/06/25 11:54	03/09/25 01:18	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Uni	t I	D	Prepared	Analyzed	Dil Fac	
Total BTEX	< 0.00404	U	0.00404	ma/	Ka			03/09/25 01:18	1	

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/11/25 17:59	1

Eurofins Midland

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-2

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-23 Matrix: Solid

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				03/06/25 09:20	03/11/25 17:59	1
o-Terphenyl	83		70 - 130				03/06/25 09:20	03/11/25 17:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Chloride 9.90 03/09/25 14:43 32.9 mg/Kg

Client Sample ID: S-2 Date Collected: 03/04/25 00:00 Lab Sample ID: 880-55262-24

Date Received: 03/05/25 16:08

Matrix: Solid

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				03/06/25 11:54	03/09/25 01:39	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/06/25 11:54	03/09/25 01:39	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 01:39	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/11/25 18:14	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 18:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 18:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 09:20	03/11/25 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/06/25 09:20	03/11/25 18:14	1

Client: Carmona Resources

Date Received: 03/05/25 16:08

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-2 Lab Sample ID: 880-55262-24 Date Collected: 03/04/25 00:00

Matrix: Solid

Sample Depth: 5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 9.94 03/09/25 14:49 Chloride 22.2 mg/Kg

Client Sample ID: S-3 Lab Sample ID: 880-55262-25 **Matrix: Solid**

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 11:54	03/09/25 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				03/06/25 11:54	03/09/25 01:59	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/06/25 11:54	03/09/25 01:59	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	11	0.00397		mg/Kg			03/09/25 01:59	

Method: SW846 8015 NM - Diesel I	Range Organ	ics (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/11/25 18:29	1
Г., ., . <u></u>									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 18:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 18:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				03/06/25 09:20	03/11/25 18:29	1
o-Terphenyl	84		70 ₋ 130				03/06/25 09:20	03/11/25 18:29	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/09/25 14:56	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-3

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-26 Matrix: Solid

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 11:54	03/09/25 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/25 11:54	03/09/25 03:20	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/06/25 11:54	03/09/25 03:20	1

Wethod: TAL SUP Total BTEX - TO	Ital BIEX Calc	ulation						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/09/25 03:20	1

Method: SW846 8015 NM - Diesel Ra	ange Organ	ics (DRO) (G	C)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/l			03/11/25 18:45	1

Method: SW846 8015B NM - Dies	sei Kange Orga	nics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 18:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/06/25 09:20	03/11/25 18:45	1
o-Terphenyl	91		70 - 130	03/06/25 09:20	03/11/25 18:45	1
-						

Method: EPA 300.0 - Anions, Ion Chr							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0 U	10.0	mg/Kg			03/09/25 15:02	1

Client Sample ID: S-3 Lab Sample ID: 880-55262-27

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 03:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				03/06/25 11:54	03/09/25 03:40	

Eurofins Midland

Date Received: 03/05/25 16:08

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-3 Lab Sample ID: 880-55262-27 Date Collected: 03/04/25 00:00

Matrix: Solid

Sample Depth: 2'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	106	70 - 130	03/06/25 11:54	03/09/25 03:40	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
motilou. IAL	OO! IOUI DIEA	TOTAL DIEN	Guidalation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ka			03/09/25 03:40	1

н			
н	Method: SW846 8015 NM - D	iccal Banga Or	manica (DDO) (CC)
н	INIELITOU. 377040 OU 13 INIVI - D	iesei Kange Or	ganics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/11/25 19:00	1

Method: SW846 8015B	NM - Diesel Rand	ge Organics	(DRO)	(GC)
Michiga. Offord out ob	INN - Dieser Rang	ge Organics	(DIXO)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78	70 - 130	03/06/25 09:20	03/11/25 19:00	1
o-Terphenyl	81	70 - 130	03/06/25 09:20	03/11/25 19:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<10.1	U	10.1		mg/Kg			03/09/25 15:08	1	

Client Sample ID: S-3 Lab Sample ID: 880-55262-28 Matrix: Solid

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 3'

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

Welliou. Syvo40 002 ID - Volat	ne Organic Comp	ounus (GC	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 11:54	03/09/25 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				03/06/25 11:54	03/09/25 04:00	1
1 4-Difluorobenzene (Surr)	110		70 130				03/06/25 11:54	03/09/25 04:00	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			03/09/25 04:00	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/11/25 19:15	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-3

Date Collected: 03/04/25 00:00

Lab Sample ID: 880-55262-28

Date Received: 03/05/25 16:08

Matrix: Solid

Sample Depth: 3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 19:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 19:15	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				03/06/25 09:20	03/11/25 19:15	1
o-Terphenyl	74		70 - 130				03/06/25 09:20	03/11/25 19:15	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-3 Lab Sample ID: 880-55262-29

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				03/06/25 11:54	03/09/25 04:21	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/06/25 11:54	03/09/25 04:21	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					-				
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 04:21	1
•					mg/Kg			03/09/25 04:21	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDI		ь	Dronored		·
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <49.7	ics (DRO) (Qualifier	GC) RL 49.7	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.7 sel Range Organ	ics (DRO) (Qualifier	GC) RL 49.7		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.7 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.7 (GC)		Unit mg/Kg		<u> </u>	Analyzed 03/11/25 19:45	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result Result 49.7 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.7 (GC) RL		Unit mg/Kg		Prepared	Analyzed 03/11/25 19:45 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <49.7 sel Range Orga Result <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.7 (GC) RL 49.7		Unit mg/Kg Unit mg/Kg		Prepared 03/06/25 09:20	Analyzed 03/11/25 19:45 Analyzed 03/11/25 19:45	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.7 sel Range Orga Result <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.7 (GC) RL 49.7		Unit mg/Kg Unit mg/Kg		Prepared 03/06/25 09:20	Analyzed 03/11/25 19:45 Analyzed 03/11/25 19:45	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.7 (GC) RL 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20	Analyzed 03/11/25 19:45 Analyzed 03/11/25 19:45 03/11/25 19:45	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7 <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.7 (GC) RL 49.7 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20	Analyzed 03/11/25 19:45 Analyzed 03/11/25 19:45 03/11/25 19:45	Dil Fac Dil Fac 1

Client: Carmona Resources

Date Received: 03/05/25 16:08

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-3 Lab Sample ID: 880-55262-29 Date Collected: 03/04/25 00:00

Matrix: Solid

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Ch	nromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.5		10.0		mg/Kg			03/09/25 16:15	1

Client Sample ID: S-3 Lab Sample ID: 880-55262-30 Matrix: Solid

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:42	
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:42	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:42	
m-Xylene & p-Xylene	< 0.00397	U	0.00397		mg/Kg		03/06/25 11:54	03/09/25 04:42	
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 04:42	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 11:54	03/09/25 04:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	127		70 - 130				03/06/25 11:54	03/09/25 04:42	
1,4-Difluorobenzene (Surr)	106		70 - 130				03/06/25 11:54	03/09/25 04:42	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/09/25 04:42	•
Method: SW846 8015 NM - Diese		, , ,	•			_			511.5
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
IOTALIPH	<50.0	U	50.0		mg/Kg			03/11/25 19:59	
: Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					03/11/25 19:59	
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	03/11/25 19:59 Analyzed	,
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>	Prepared 03/06/25 09:20	03/11/25 19:59	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>	<u>.</u>	03/11/25 19:59 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	03/06/25 09:20	03/11/25 19:59 Analyzed 03/11/25 19:59	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <50.0	nics (DRO) Qualifier U U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/06/25 09:20	03/11/25 19:59 Analyzed 03/11/25 19:59 03/11/25 19:59	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0	nics (DRO) Qualifier U U	(GC) RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/06/25 09:20 03/06/25 09:20 03/06/25 09:20	03/11/25 19:59 Analyzed 03/11/25 19:59 03/11/25 19:59 03/11/25 19:59	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Name	nics (DRO) Qualifier U U	(GC) RL 50.0 50.0 50.0 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared	03/11/25 19:59 Analyzed 03/11/25 19:59 03/11/25 19:59 03/11/25 19:59 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	Sel Range Orga Result	Nics (DRO) Qualifier U U Qualifier	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared 03/06/25 09:20	03/11/25 19:59 Analyzed 03/11/25 19:59 03/11/25 19:59 03/11/25 19:59 Analyzed 03/11/25 19:59	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 81 85	Nics (DRO) Qualifier U U Qualifier	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared 03/06/25 09:20	03/11/25 19:59 Analyzed 03/11/25 19:59 03/11/25 19:59 03/11/25 19:59 Analyzed 03/11/25 19:59	Dil Fac

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

Lab Sample ID: 880-55262-31

Job ID: 880-55262-1

Matrix: Solid

Client Sample ID: S-4

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 06:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 06:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 06:31	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 06:31	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 06:31	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 06:31	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130				03/06/25 11:54	03/09/25 06:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/25 11:54	03/09/25 06:31	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	П	0.00399		mg/Kg			03/09/25 06:31	1
• •					mg/rtg			00/00/20 00:01	
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	GC)	MDL		D	Prepared		Dil Fac
• •	el Range Organ	ics (DRO) (C		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/11/25 20:14	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.8	ics (DRO) (0 Qualifier	GC) RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	
: Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.8 sel Range Organ	ics (DRO) (0 Qualifier	GC) RL 49.8		Unit	<u>D</u>	Prepared Prepared	Analyzed 03/11/25 20:14	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.8 sel Range Organ	ics (DRO) ((Qualifier U)	GC) RL 49.8		Unit mg/Kg			Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result Result Result Result 49.8 Result 49.8	ics (DRO) (O Qualifier U nics (DRO) Qualifier	GC) RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 03/06/25 09:20	Analyzed 03/11/25 20:14 Analyzed 03/11/25 20:14	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.8 sel Range Orga Result	ics (DRO) (O Qualifier U nics (DRO) Qualifier	GC) RL 49.8 (GC) RL		Unit mg/Kg Unit		Prepared	Analyzed 03/11/25 20:14 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result Result Result Result 49.8 Result 49.8	ics (DRO) (Control of the control of	GC) RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 03/06/25 09:20	Analyzed 03/11/25 20:14 Analyzed 03/11/25 20:14	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.8 sel Range Orga Result 49.8 49.8	ics (DRO) (CQualifier U) nics (DRO) Qualifier U U U	GC) RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20	Analyzed 03/11/25 20:14 Analyzed 03/11/25 20:14 03/11/25 20:14	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8	ics (DRO) (CQualifier U) nics (DRO) Qualifier U U U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20	Analyzed 03/11/25 20:14 Analyzed 03/11/25 20:14 03/11/25 20:14 03/11/25 20:14	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8 <49.8 %Recovery	ics (DRO) (CQualifier U) nics (DRO) Qualifier U U U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared	Analyzed 03/11/25 20:14 Analyzed 03/11/25 20:14 03/11/25 20:14 03/11/25 20:14 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8 <49.8 %Recovery 74 75	ics (DRO) (Control of the property of the prop	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared 03/06/25 09:20	Analyzed 03/11/25 20:14 Analyzed 03/11/25 20:14 03/11/25 20:14 Analyzed 03/11/25 20:14	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8 <49.8 %Recovery 74 75 a Chromatograp	ics (DRO) (Control of the property of the prop	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared 03/06/25 09:20	Analyzed 03/11/25 20:14 Analyzed 03/11/25 20:14 03/11/25 20:14 Analyzed 03/11/25 20:14	

Client Sample ID: S-4

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 11:54	03/09/25 06:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/25 11:54	03/09/25 06:52	1

Eurofins Midland

Lab Sample ID: 880-55262-32

Job ID: 880-55262-1

Matrix: Solid

Client Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

Lab Sample ID: 880-55262-32

Client Sample ID: S-4

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 1.5'

Method: SW846 8021B .	Volatile Organic Compounds	(GC) (Continued)
WELLIOU. SYVOTO OUZ ID -	Voiatile Organic Combounds	(OO) (OO) (III IU EU)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	111		70 - 130	03/06/25 11:54	03/09/25 06:52	1

Method: TAL SOP	Total RTFY - Total	RTFY Calculation
MELITOU. TAL JOI	TOTAL DIEX - TOTAL	DIEA Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			03/09/25 06:52	1

Mathed CMO4C CO4E NM Discal Dance Occasion (DI	201	1001	
Method: SW846 8015 NM - Diesel Range Organics (DI	くしょいし	((36.)	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg	 		03/11/25 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 20:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 20:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:20	03/11/25 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71	70 - 130	03/06/25 09:20	03/11/25 20:30	1
o-Terphenyl	76	70 - 130	03/06/25 09:20	03/11/25 20:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	19.6		10.0		mg/Kg			03/09/25 16:33	1	

Client Sample ID: S-4 Lab Sample ID: 880-55262-33

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 2'

Mothodi CIMOAC 0004D	Valatila Organia Campaunda //	

Method: 544846 8021B - Volat	ile Organic Comp	ounas (GC)		thod: Sw846 8021B - volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac						
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 07:12	1						
Toluene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 07:12	1						
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 07:12	1						
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 07:12	1						
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 07:12	1						
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 07:12	1						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac						
4-Bromofluorobenzene (Surr)	122		70 - 130				03/06/25 11:54	03/09/25 07:12	1						
1,4-Difluorobenzene (Surr)	102		70 - 130				03/06/25 11:54	03/09/25 07:12	1						

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			03/09/25 07:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (DRO)	(GC
---	---------	----------------	--------------	----------	----------	------	-----

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/11/25 20:44	1

Eurofins Midland

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-4

Date Collected: 03/04/25 00:00

Lab Sample ID: 880-55262-33 Matrix: Solid

03/09/25 16:52

Date Received: 03/05/25 16:08

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 20:44	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 20:44	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:20	03/11/25 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				03/06/25 09:20	03/11/25 20:44	1
o-Terphenyl	89		70 - 130				03/06/25 09:20	03/11/25 20:44	1
- -									
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	е						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-4 Lab Sample ID: 880-55262-34 Matrix: Solid

10.1

71.7

mg/Kg

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 3'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:54	03/09/25 07:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				03/06/25 11:54	03/09/25 07:33	1
1,4-Difluorobenzene (Surr)	112		70 - 130				03/06/25 11:54	03/09/25 07:33	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	11	0.00000					00/00/05 07 00	
IUIAI DI EA	~ 0.00033	U	0.00399		mg/Kg			03/09/25 07:33	1
• •					mg/Kg			03/09/25 07:33	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (MDL	Unit	D	Prepared	03/09/25 07:33 Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH	Range Organ Result <49.9	ics (DRO) (Qualifier	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier	GC) RL 49.9		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg			Analyzed 03/11/25 21:00	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Organ Result Result 49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	GC) RL 49.9 (GC) RL		Unit mg/Kg		Prepared	Analyzed 03/11/25 21:00 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result Result 49.9 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL		Unit mg/Kg		Prepared	Analyzed 03/11/25 21:00 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result 49.9 49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20	Analyzed 03/11/25 21:00 Analyzed 03/11/25 21:00 03/11/25 21:00	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result Result Result Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 03/06/25 09:20	Analyzed 03/11/25 21:00 Analyzed 03/11/25 21:00	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared	Analyzed 03/11/25 21:00 Analyzed 03/11/25 21:00 03/11/25 21:00 03/11/25 21:00 Analyzed	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20	Analyzed 03/11/25 21:00 Analyzed 03/11/25 21:00 03/11/25 21:00 03/11/25 21:00	Dil Fac Dil Fac 1 1 1

Project/Site: Benson Shugart Waterflood #23

Matrix: Solid

Lab Sample ID: 880-55262-34

Client Sample ID: S-4

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.1		9.94		mg/Kg			03/09/25 16:58	1

Client Sample ID: S-4 Lab Sample ID: 880-55262-35 Matrix: Solid

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:54	03/09/25 07:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				03/06/25 11:54	03/09/25 07:53	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/06/25 11:54	03/09/25 07:53	1

Analyte	Result	Qualifier	NL.	IVIDE	Oilit	ט	riepaieu	Allalyzeu	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/09/25 07:53	1
 Method: SW846 8015 NM - Diesel R	Range Organi	ics (DRO) (0	3C)						

method: SW846 8015 NM - Diesei Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Total TPH	<49.8	U	49.8	mg/Kg			03/11/25 21:15	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 21:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 21:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/06/25 09:20	03/11/25 21:15	1
o-Terphenyl	80		70 - 130				03/06/25 09:20	03/11/25 21:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D		Prepared	Analyzed	Dil Fac
	Chloride	46.3		9.98		mg/Kg				03/09/25 17:04	1

Job ID: 880-55262-1

Matrix: Solid

Client Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

Lab Sample ID: 880-55262-36

Client Sample ID: S-4

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 08:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/25 11:54	03/09/25 08:14	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/06/25 11:54	03/09/25 08:14	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/25 08:14	1
Mathadi CW946 9045 NM Diag	I Banga Organ	ion (DBO) (201						
Method: SW846 8015 NM - Diese		, ,,	•	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed 03/11/25 21:31	Dil Fac
Analyte		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/11/25 21:31	
Analyte Total TPH	Result <49.7	Qualifier U	RL 49.7	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Result <49.7	Qualifier U	RL 49.7			<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.7	Qualifier Unics (DRO) Qualifier	RL 49.7		mg/Kg			03/11/25 21:31	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC)		mg/Kg		Prepared	03/11/25 21:31 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result 49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC) RL 49.7		mg/Kg Unit mg/Kg		Prepared 03/06/25 09:20	03/11/25 21:31 Analyzed 03/11/25 21:31	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7 sel Range Orga Result <49.7 <49.7	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20	03/11/25 21:31 Analyzed 03/11/25 21:31 03/11/25 21:31	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7 49.7		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20	03/11/25 21:31 Analyzed 03/11/25 21:31 03/11/25 21:31 03/11/25 21:31	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.7		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared	03/11/25 21:31 Analyzed 03/11/25 21:31 03/11/25 21:31 03/11/25 21:31 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared 03/06/25 09:20	03/11/25 21:31 Analyzed 03/11/25 21:31 03/11/25 21:31 03/11/25 21:31 Analyzed 03/11/25 21:31	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:20 03/06/25 09:20 03/06/25 09:20 Prepared 03/06/25 09:20	03/11/25 21:31 Analyzed 03/11/25 21:31 03/11/25 21:31 03/11/25 21:31 Analyzed 03/11/25 21:31	1 Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: S-5

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:54	03/09/25 08:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/25 11:54	03/09/25 08:34	1

Eurofins Midland

Lab Sample ID: 880-55262-37

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-5

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Lab Sample ID: 880-55262-37

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 03/06/25 11:54 1,4-Difluorobenzene (Surr) 105 03/09/25 08:34

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 03/09/25 08:34 mg/Kg

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

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 03/11/25 21:45 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U 50.0 mg/Kg 03/06/25 09:20 03/11/25 21:45 Gasoline Range Organics (GRO)-C6-C10 <50.0 U 50.0 03/06/25 09:20 03/11/25 21:45 Diesel Range Organics (Over mg/Kg C10-C28) 03/06/25 09:20 Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/11/25 21:45

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 72 70 - 130 03/06/25 09:20 03/11/25 21:45 03/11/25 21:45 73 70 - 130 03/06/25 09:20 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <10.1 U 10.1 03/09/25 17:16 mg/Kg

Client Sample ID: S-5 Lab Sample ID: 880-55262-38

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 1.5'

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 03/06/25 11:54 03/09/25 08:55 Toluene <0.00200 U 0.00200 03/06/25 11:54 03/09/25 08:55 mg/Kg Ethylbenzene <0.00200 U 0.00200 03/06/25 11:54 03/09/25 08:55 mg/Kg 0.00399 03/06/25 11:54 03/09/25 08:55 m-Xylene & p-Xylene <0.00399 U mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 03/06/25 11:54 03/09/25 08:55 Xylenes, Total <0.00399 U 0.00399 mg/Kg 03/06/25 11:54 03/09/25 08:55 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed

70 - 130 03/06/25 11:54 4-Bromofluorobenzene (Surr) 128 03/09/25 08:55 1,4-Difluorobenzene (Surr) 101 70 - 130 03/06/25 11:54 03/09/25 08:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00399 0.00399 03/09/25 08:55 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.8 U Total TPH 49.8 03/11/25 22:01 mg/Kg

Eurofins Midland

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-5

Date Collected: 03/04/25 00:00

Lab Sample ID: 880-55262-38

Date Received: 03/05/25 16:08

Matrix: Solid

Sample Depth: 1.5'

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 22:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 22:01	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:20	03/11/25 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				03/06/25 09:20	03/11/25 22:01	1
o-Terphenyl	77		70 - 130				03/06/25 09:20	03/11/25 22:01	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
	D14	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	11		0	_	opai ca	Allalyzea	Diriac

Client Sample ID: S-5 Lab Sample ID: 880-55262-39 Matrix: Solid

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:54	03/09/25 09:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				03/06/25 11:54	03/09/25 09:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/06/25 11:54	03/09/25 09:15	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	11	0.00400		mg/Kg			03/09/25 09:15	
IOIAI DI EX	~0.00 4 02	U	0.00402		mg/ng			03/09/25 09:15	
• •					mg/kg			03/09/25 09:15	'
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						·
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	MDL		D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Result <49.9	ics (DRO) (Gualifier	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Gualifier	GC) RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	GC) RL 49.9		Unit mg/Kg	_		Analyzed 03/08/25 04:31	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	GC) RL 49.9 (GC) RL		Unit mg/Kg	_	Prepared	Analyzed 03/08/25 04:31	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result <49.9 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL		Unit mg/Kg	_	Prepared	Analyzed 03/08/25 04:31	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 49.9 sel Range Orga Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg	_	Prepared 03/06/25 09:31	Analyzed 03/08/25 04:31 Analyzed 03/08/25 04:31	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 49.9 sel Range Orga Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg	_	Prepared 03/06/25 09:31	Analyzed 03/08/25 04:31 Analyzed 03/08/25 04:31	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result 49.9 49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg	_	Prepared 03/06/25 09:31 03/06/25 09:31	Analyzed 03/08/25 04:31 Analyzed 03/08/25 04:31 03/08/25 04:31	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Organ Result 49.9 sel Range Orga Result 49.9 449.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg	_	Prepared 03/06/25 09:31 03/06/25 09:31	Analyzed 03/08/25 04:31 Analyzed 03/08/25 04:31 03/08/25 04:31	Dil Fac Dil Fac 1 1 1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-5

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Matrix: Solid

Lab Sample ID: 880-55262-39

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3		10.1		mg/Kg			03/09/25 17:40	1

Client Sample ID: S-5 Lab Sample ID: 880-55262-40 **Matrix: Solid**

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Sample Depth: 3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 11:54	03/09/25 09:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				03/06/25 11:54	03/09/25 09:35	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/06/25 11:54	03/09/25 09:35	1
- -									
Method: TAL SOP Total BTEX Analyte		culation Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/09/25 09:35	Dil Fac
Analyte Total BTEX	Result <0.00401	Qualifier U	0.00401	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Did	Result <0.00401	Qualifier U	0.00401			<u>D</u>	Prepared Prepared		1
Analyte Total BTEX	Result <0.00401	Qualifier U ics (DRO) (Qualifier	0.00401 GC)		mg/Kg			03/09/25 09:35	Dil Fac Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH	esel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	0.00401 GC) RL 49.8		mg/Kg			03/09/25 09:35 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte	esel Range Organ Result <49.8 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U	0.00401 GC) RL 49.8	MDL	mg/Kg			03/09/25 09:35 Analyzed	1

Method: EPA 300.0 - Anions, Ion C	hromatography	y - Soluble						
Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141	9.96		mg/Kg			03/09/25 17:47	1

49.8

49.8

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

03/06/25 09:31

03/06/25 09:31

Prepared

03/06/25 09:31

03/06/25 09:31

03/08/25 05:16

03/08/25 05:16

Analyzed

03/08/25 05:16

03/08/25 05:16

Dil Fac

<49.8 U

<49.8 U

%Recovery Qualifier

83

73

Eurofins Midland

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-5

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-41 Matrix: Solid

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 16:41	
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 16:41	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/06/25 11:48	03/06/25 16:41	
1,4-Difluorobenzene (Surr)	86		70 - 130				03/06/25 11:48	03/06/25 16:41	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 16:41	1
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	RL 49.7	MDL		<u>D</u>	Prepared	Analyzed 03/08/25 05:33	Dil Fac
Iotal IPH - -	<49.7	U	49.7		mg/Kg			03/08/25 05:33	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 05:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 05:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 09:31	03/08/25 05:33	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				03/06/25 09:31	03/08/25 05:33	
o-Terphenyl	67	S1-	70 - 130				03/06/25 09:31	03/08/25 05:33	
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv - Solubl	e						
,		,	•						

Client Sample ID: S-5

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Sample Depth: 5'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 11:48	03/06/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/06/25 11:48	03/06/25 17:01	

9.94

136

mg/Kg

Eurofins Midland

03/09/25 18:05

Matrix: Solid

Lab Sample ID: 880-55262-42

Job ID: 880-55262-1

Matrix: Solid

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

Lab Sample ID: 880-55262-42

Client Sample ID: S-5

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 5'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	90	70 - 130	03/06/25 11:48	03/06/25 17:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg	_	_	03/06/25 17:01	1

Method: SW846 8015 NM	- Diesal Range	Organice	(DRO)	(CC)	ï
MICHICA. STACTO CO 12 IAIN	- Diesei Kange	Organics	(DIXO)	\mathbf{U}	,

Analyte	Result Qualif	ier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			03/08/25 05:47	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82	70 - 130	03/06/25 09:31	03/08/25 05:47	1
o-Terphenyl	73	70 - 130	03/06/25 09:31	03/08/25 05:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	110		9.92		mg/Kg				03/09/25 18:11	1

Client Sample ID: S-6 Lab Sample ID: 880-55262-43

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Method: SW846 8021B -	M-1-4!1- O	0 (00)

Mictilod. Offoro 002 ID - Volut	ne organie comp	ounus (CC)	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/06/25 11:48	03/06/25 17:22	1
1 A-Diffuorobenzene (Surr)	88		70 130				03/06/25 11:48	03/06/25 17:22	1

ı	4-Diomondocizene (Sun)	100	70 - 130	03/00/23 11.40	03/00/23 11.22	,
	1,4-Difluorobenzene (Surr)	88	70 - 130	03/06/25 11:48	03/06/25 17:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		_	03/06/25 17:22	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/08/25 06:02	1

Eurofins Midland

Matrix: Solid

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-6

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Lab Sample	ID:	880-55262-43
		Matrix: Solid

03/09/25 18:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 06:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 06:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 06:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				03/06/25 09:31	03/08/25 06:02	1
o-Terphenyl	72		70 - 130				03/06/25 09:31	03/08/25 06:02	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Δnalyte	• •	Qualifier	RI	MDI	Unit	D	Prenared	Analyzed	Dil Fac

Client Sample ID: S-6

Lab Sample ID: 880-55262-44

Date Collected: 03/04/25 00:00

Matrix: Solid

10.0

mg/Kg

<10.0 U

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

O a marila D a state 4 5

Sample Depth: 1.5'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/06/25 11:48	03/06/25 17:42	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/06/25 11:48	03/06/25 17:42	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 17:42	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/25 06:17	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 06:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/06/25 09:31	03/08/25 06:17	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-6

Date Collected: 03/04/25 00:00

Lab Sample ID: 880-55262-44

Date Received: 03/05/25 16:08

Matrix: Solid

Sample Depth: 1.5'

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.4		9.98		mg/Kg			03/09/25 18:23	1

Client Sample ID: S-6 Lab Sample ID: 880-55262-45

Matrix: Solid

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 18:03	
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 18:03	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 18:03	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:48	03/06/25 18:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 18:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:48	03/06/25 18:03	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	101		70 - 130				03/06/25 11:48	03/06/25 18:03	-
1,4-Difluorobenzene (Surr)	87		70 - 130				03/06/25 11:48	03/06/25 18:03	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	<0.00402				mg/Kg			02/06/25 10:02	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (•			_		03/06/25 18:03	
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0 sel Range Organ	ics (DRO) (Qualifier U	RL 50.0		Unit mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result <50.0 sel Range Organ Result	Qualifier Unics (DRO) Qualifier	GC) RL 50.0 (GC) RL		Unit	<u>D</u>	Prepared	Analyzed 03/08/25 06:33 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result <50.0 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 50.0		Unit mg/Kg			Analyzed 03/08/25 06:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.0 sel Range Organ Result	ics (DRO) (Outline DRO) Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL		Unit mg/Kg		Prepared	Analyzed 03/08/25 06:33 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) (COMPANIES (DRO)) Qualifier U Qualifier U U	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/06/25 09:31	Analyzed 03/08/25 06:33 Analyzed 03/08/25 06:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:31	Analyzed 03/08/25 06:33 Analyzed 03/08/25 06:33 03/08/25 06:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:31 03/06/25 09:31	Analyzed 03/08/25 06:33 Analyzed 03/08/25 06:33 03/08/25 06:33 03/08/25 06:33	Dil Fac
Method: SW846 8015 NM - Dieso Analyte	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0 <70.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:31 03/06/25 09:31 03/06/25 09:31 Prepared	Analyzed 03/08/25 06:33 Analyzed 03/08/25 06:33 03/08/25 06:33 03/08/25 06:33 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 87 81	ics (DRO) (Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:31 03/06/25 09:31 03/06/25 09:31 Prepared 03/06/25 09:31	Analyzed 03/08/25 06:33 Analyzed 03/08/25 06:33 03/08/25 06:33 Analyzed 03/08/25 06:33	Dil Fac

03/09/25 18:29

10.0

mg/Kg

157

Chloride

Matrix: Solid

Client Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

Lab Sample ID: 880-55262-46

03/10/25 17:18

03/10/25 15:55

Lab Sample ID: 880-55262-47

Client Sample ID: S-6

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/06/25 11:48	03/06/25 18:23	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/06/25 11:48	03/06/25 18:23	1
Method: TAL SOP Total BTEX - 1						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/25 18:23	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/10/25 15:55	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		03/10/25 17:18	03/10/25 15:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		03/10/25 17:18	03/10/25 15:55	1
C10-C28)									
C10-C28) Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/10/25 17:18	03/10/25 15:55	1
,	<50.1 %Recovery		50.1 <i>Limits</i>		mg/Kg		03/10/25 17:18 Prepared	03/10/25 15:55 Analyzed	1 Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier

RL MDL Unit D Prepared Dil Fac Analyzed 10.1 03/09/25 18:35 Chloride 605 mg/Kg

70 - 130

Client Sample ID: S-6

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 4'

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:48	03/06/25 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/06/25 11:48	03/06/25 18:44	1

Eurofins Midland

Matrix: Solid

Client: Carmona Resources

Date Received: 03/05/25 16:08

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-6 Lab Sample ID: 880-55262-47 Date Collected: 03/04/25 00:00

Matrix: Solid

Sample Depth: 4'

Method: SW846 8021B - Volatile	Organic Compounds	(GC)	(Continued)
mother of the court of the country	organic compounds	1/	(Continuou)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	89	70 - 130	03/06/25 11:48	03/06/25 18:44	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Oulculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg				03/06/25 18:44	1

Mathada CMO4C CO4E NM Disast Dansa Consulta (DDC) (C)	△ \
Method: SW846 8015 NM - Diesel Range Organics (DRO) (G	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/25 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 07:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 07:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88	70 - 130	03/06/25 09:31	03/08/25 07:02	1
o-Terphenyl	79	70 - 130	03/06/25 09:31	03/08/25 07:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Quali		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	737	9.94	mg/	Kg		03/09/25 18:41	1

Client Sample ID: S-6 Lab Sample ID: 880-55262-48

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 5'

Method: SW846 8021B -	M-1-4!1- O	0 (00)

moniour erro to collect rotatio erganic compounds (e.g.)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 11:48	03/06/25 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/06/25 11:48	03/06/25 19:05	1
1 4 Diffuorabanzana (Surr)	0.1		70 120				02/06/25 11:49	02/06/25 10:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/06/25 11:48	03/06/25 19:05	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/06/25 11:48	03/06/25 19:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			03/06/25 19:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (DRO)	(GC
---	---------	----------------	--------------	----------	----------	------	-----

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/08/25 07:17	1

Eurofins Midland

Matrix: Solid

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-6

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Matrix: Solid

Lab Sample ID: 880-55262-48

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 07:17	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 07:17	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 09:31	03/08/25 07:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				03/06/25 09:31	03/08/25 07:17	1
o-Terphenyl -	77		70 - 130				03/06/25 09:31	03/08/25 07:17	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 880-55262-49 Client Sample ID: S-6

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 11:48	03/06/25 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/06/25 11:48	03/06/25 19:25	1
1,4-Difluorobenzene (Surr)	86		70 - 130				03/06/25 11:48	03/06/25 19:25	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/06/25 19:25	1
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/06/25 19:25	1
Total BTEX Method: SW846 8015 NM - Diese					mg/Kg			03/06/25 19:25	1
• •	el Range Organ			MDL	mg/Kg Unit	D	Prepared	03/06/25 19:25 Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		D	Prepared		
Method: SW846 8015 NM - Diese Analyte	Result <49.7	ics (DRO) (Gualifier	GC) RL 49.7	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.7 sel Range Organ	ics (DRO) (Gualifier	GC) RL 49.7	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.7 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.7 (GC)		Unit mg/Kg		<u> </u>	Analyzed 03/08/25 07:47	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Organ Result Result 49.7 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	GC) RL 49.7 (GC) RL		Unit mg/Kg		Prepared	Analyzed 03/08/25 07:47 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result Result 49.7 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.7 (GC) RL		Unit mg/Kg		Prepared	Analyzed 03/08/25 07:47 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.7 (GC) RL 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:31	Analyzed 03/08/25 07:47 Analyzed 03/08/25 07:47 03/08/25 07:47	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.7 sel Range Orga Result <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.7 (GC) RL 49.7		Unit mg/Kg Unit mg/Kg		Prepared 03/06/25 09:31	Analyzed 03/08/25 07:47 Analyzed 03/08/25 07:47	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.7 (GC) RL 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:31	Analyzed 03/08/25 07:47 Analyzed 03/08/25 07:47 03/08/25 07:47	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7 <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.7 (GC) RL 49.7 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/06/25 09:31 03/06/25 09:31	Analyzed 03/08/25 07:47 Analyzed 03/08/25 07:47 03/08/25 07:47	Dil Fac

Client: Carmona Resources Project/Site: Benson Shugart Waterflood #23 Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-6

Lab Sample ID: 880-55262-49

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Matrix: Solid

Sample Depth: 6'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit		D	Prepared	Analyzed	Dil Fac
Chloride	409		9.96		mg/Kg				03/10/25 16:27	1

Surrogate Summary

Client: Carmona Resources Job ID: 880-55262-1 Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

latrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-55262-1	S-1	119	95	
880-55262-1 MS	S-1	120	94	
880-55262-1 MSD	S-1	115	95	
880-55262-2	S-1	116	88	
880-55262-3	S-1	118	86	
880-55262-4	S-1	116	92	
380-55262-5	S-1	119	96	
380-55262-6	S-1	116	89	
380-55262-7	S-1	123	91	
380-55262-8	S-1	131 S1+	85	
380-55262-19	S-2	120	88	
380-55262-20	S-2	110	90	
380-55262-21	S-2	93	102	
880-55262-21 MS	S-2	118	99	
880-55262-21 MSD	S-2	106	105	
880-55262-22	S-2	110	106	
380-55262-23	S-2	114	97	
380-55262-24	S-2	122	101	
880-55262-25	S-3	128	103	
880-55262-26	S-3	117	105	
880-55262-27	S-3	123	106	
880-55262-28	S-3	137 S1+	110	
880-55262-29	S-3	132 S1+	109	
880-55262-30	S-3	127	106	
880-55262-31	S-4	104	108	
380-55262-32	S-4	117	111	
380-55262-33	S-4	122	102	
380-55262-34	S-4	128	112	
380-55262-35	S-4	126	109	
380-55262-36	S-4	113	107	
380-55262-37	S-5	117	105	
380-55262-38	S-5	128	101	
380-55262-39	S-5	125	104	
380-55262-40	S-5	136 S1+	105	
380-55262-41	S-5	99	86	
880-55262-42	S-5	103	90	
380-55262-43	S-6	100	88	
380-55262-44	S-6	100	89	
380-55262-45	S-6	101	87	
380-55262-46	S-6	105	85	
380-55262-47	S-6	100	89	
380-55262-48	S-6	103	91	
880-55262-49	S-6	99	86	
890-7773-A-1-B MS	Matrix Spike	109	89	
890-7773-A-1-C MSD	Matrix Spike Duplicate	101	91	
_CS 880-104555/1-A	Lab Control Sample	98	91	
LCS 880-104505/1-A	Lab Control Sample	118	94	
UUU- IUTUU <i>UI</i> ITA	Lab Control Cample	110	J -1	
LCS 880-104611/1-A	Lab Control Sample	98	95	

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Carmona Resources Job ID: 880-55262-1 Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCSD 880-104609/2-A	Lab Control Sample Dup	120	95	
LCSD 880-104611/2-A	Lab Control Sample Dup	107	95	
MB 880-104474/5-A	Method Blank	209 S1+	123	
MB 880-104479/5-A	Method Blank	107	93	
MB 880-104555/5-A	Method Blank	100	83	
MB 880-104609/5-A	Method Blank	112	86	
MB 880-104611/5-A	Method Blank	227 S1+	125	
Surrogate Legend				

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

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-55262-1	S-1	95	86	
380-55262-2	S-1	106	97	
380-55262-3	S-1	99	93	
380-55262-4	S-1	99	91	
380-55262-5	S-1	98	96	
380-55262-6	S-1	96	90	
880-55262-7	S-1	105	94	
880-55262-8	S-1	112	97	
880-55262-19	S-2	76	79	
880-55262-20	S-2	78	82	
880-55262-21	S-2	83	88	
880-55262-22	S-2	82	86	
880-55262-22 MS	S-2	89	85	
880-55262-22 MSD	S-2	88	84	
880-55262-23	S-2	80	83	
880-55262-24	S-2	87	91	
380-55262-25	S-3	82	84	
380-55262-26	S-3	89	91	
380-55262-27	S-3	78	81	
380-55262-28	S-3	73	74	
380-55262-29	S-3	90	92	
380-55262-30	S-3	81	85	
380-55262-31	S-4	74	75	
380-55262-32	S-4	71	76	
380-55262-33	S-4	85	89	
380-55262-34	S-4	73	78	
380-55262-35	S-4	78	80	
380-55262-36	S-4	83	86	
880-55262-37	S-5	72	73	
880-55262-38	S-5	76	77	
880-55262-39	S-5	72	66 S1-	
380-55262-39 MS	S-5	81	74	
380-55262-39 MSD	S-5	82	74 75	

Surrogate Summary

Client: Carmona Resources Job ID: 880-55262-1 Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

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

Matrix: Solid Prep Type: Total/NA

				Per
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-55262-40	S-5	83	73	
880-55262-41	S-5	75	67 S1-	
880-55262-42	S-5	82	73	
880-55262-43	S-6	80	72	
880-55262-44	S-6	90	82	
880-55262-45	S-6	87	81	
880-55262-46	S-6	149 S1+	142 S1+	
880-55262-47	S-6	88	79	
880-55262-48	S-6	86	77	
880-55262-49	S-6	102	93	
890-7770-A-3-D MS	Matrix Spike	95	89	
890-7770-A-3-E MSD	Matrix Spike Duplicate	109	89	
890-7787-A-1-H MS	Matrix Spike	88	77	
890-7787-A-1-I MSD	Matrix Spike Duplicate	88	77	
LCS 880-104565/2-A	Lab Control Sample	108	105	
LCS 880-104566/2-A	Lab Control Sample	106	106	
LCS 880-104567/2-A	Lab Control Sample	113	100	
LCS 880-104814/2-A	Lab Control Sample	109	97	
LCSD 880-104565/3-A	Lab Control Sample Dup	120	122	
LCSD 880-104566/3-A	Lab Control Sample Dup	105	104	
LCSD 880-104567/3-A	Lab Control Sample Dup	112	100	
LCSD 880-104814/3-A	Lab Control Sample Dup	109	95	
MB 880-104565/1-A	Method Blank	107	101	
MB 880-104566/1-A	Method Blank	71	75	
MB 880-104567/1-A	Method Blank	98	88	
		106	95	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104474/5-A

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104474

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:22	03/08/25 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 14:22	03/08/25 12:32	1

MB MB

%Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 209 S1+ 1,4-Difluorobenzene (Surr) 123 70 - 130

Prepared Dil Fac Analyzed 03/05/25 14:22 03/08/25 12:32 03/05/25 14:22 03/08/25 12:32

Lab Sample ID: MB 880-104479/5-A

Matrix: Solid

Analysis Batch: 104771

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

Prep Batch: 104479

MB	MB
1410	1410

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		03/05/25 14:32	03/08/25 16:17	1

MB MB

MR MR

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/05/25 14:32	03/08/25 16:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/05/25 14:32	03/08/25 16:17	1

Lab Sample ID: MB 880-104555/5-A

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 104555**

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 18:00	03/06/25 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 18:00	03/06/25 11:40	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	70 - 130	03/05/25 18:00	03/06/25 11:40	1
1,4-Difluorobenzene (Surr)	83	70 - 130	03/05/25 18:00	03/06/25 11:40	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104555/1-A

Lab Sample ID: LCSD 880-104555/2-A

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 104555**

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08388		mg/Kg		84	70 - 130	
Toluene	0.100	0.07655		mg/Kg		77	70 - 130	
Ethylbenzene	0.100	0.07803		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	0.200	0.1596		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.08477		mg/Kg		85	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 98 91 1,4-Difluorobenzene (Surr) 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104555

Analysis Batch: 104558 LCSD LCSD RPD Spike Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Benzene 0.100 0.09037 mg/Kg 90 70 - 130 7 35 Toluene 0.100 0.08163 mg/Kg 82 70 - 130 6 35 Ethylbenzene 0.100 0.08451 mg/Kg 85 70 - 130 8 35 m-Xylene & p-Xylene 0.200 0.1718 mg/Kg 86 70 - 130 35 0.100 0.08976 o-Xylene mg/Kg 90 70 - 130 35

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

Lab Sample ID: 890-7773-A-1-B MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 104558

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

Prep Batch: 104555

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.100	0.03992	F1	mg/Kg		40	70 - 130	
Toluene	<0.00200	U F1	0.100	0.04061	F1	mg/Kg		41	70 - 130	
Ethylbenzene	<0.00200	U F1	0.100	0.04500	F1	mg/Kg		45	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.09331	F1	mg/Kg		47	70 - 130	
o-Xylene	<0.00200	U F1	0.100	0.05085	F1	mg/Kg		51	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 109 1,4-Difluorobenzene (Surr) 89 70 - 130

Lab Sample ID: 890-7773-A-1-C MSD

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104555

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.05621	F1	mg/Kg		56	70 - 130	34	35
Toluene	<0.00200	U F1	0.100	0.05391	F1	mg/Kg		54	70 - 130	28	35
Ethylbenzene	<0.00200	U F1	0.100	0.05819	F1	mg/Kg		58	70 - 130	26	35

Eurofins Midland

Page 43 of 86

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Lab Sample ID: 890-7773-A-1-C MSD

Matrix: Solid

Analysis Batch: 104558

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104555

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1192	F1	mg/Kg		60	70 - 130	24	35
o-Xylene	<0.00200	U F1	0.100	0.06269	F1	mg/Kg		63	70 - 130	21	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-104609/5-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 104771

Prep Type: Total/NA

Prep Batch: 104609

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 11:49	03/09/25 04:14	1

мв мв

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112	70 - 130	03/06/25 11:49	03/09/25 04:14	1
1,4-Difluorobenzene (Surr)	86	70 - 130	03/06/25 11:49	03/09/25 04:14	1

Lab Sample ID: LCS 880-104609/1-A

Matrix: Solid

Analysis Batch: 104771

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

Prep Batch: 104609

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07110		mg/Kg		71	70 - 130	
Toluene	0.100	0.07076		mg/Kg		71	70 - 130	
Ethylbenzene	0.100	0.07589		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	0.200	0.1486		mg/Kg		74	70 - 130	
o-Xylene	0.100	0.07596		mg/Kg		76	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-104609/2-A

Matrix: Solid

Analysis Batch: 104771

Client Sample	ID: I ah	Control	Sample	Dun

Prep Type: Total/NA

Prep Batch: 104609

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07783		mg/Kg		78	70 - 130	9	35
Toluene	0.100	0.07389		mg/Kg		74	70 - 130	4	35
Ethylbenzene	0.100	0.07172		mg/Kg		72	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1559		mg/Kg		78	70 - 130	5	35
o-Xylene	0.100	0.07902		mg/Kg		79	70 - 130	4	35

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-55262-1 MS

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: S-1
Prep Type: Total/NA

Prep Batch: 104609

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08117		mg/Kg		81	70 - 130	
Toluene	<0.00200	U F1	0.100	0.05858	F1	mg/Kg		59	70 - 130	
Ethylbenzene	<0.00200	U F1	0.100	0.06055	F1	mg/Kg		61	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1178	F1	mg/Kg		59	70 - 130	
o-Xylene	<0.00200	U F1	0.100	0.06794	F1	mg/Kg		68	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	120	70 - 130
1 4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 880-55262-1 MSD

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: S-1
Prep Type: Total/NA

Prep Batch: 104609

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08318		mg/Kg		83	70 - 130	2	35
Toluene	<0.00200	U F1	0.100	0.06349	F1	mg/Kg		63	70 - 130	8	35
Ethylbenzene	<0.00200	U F1	0.100	0.06248	F1	mg/Kg		62	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1215	F1	mg/Kg		61	70 - 130	3	35
o-Xylene	<0.00200	U F1	0.100	0.06740	F1	mg/Kg		67	70 - 130	1	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: MB 880-104611/5-A

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104611

IVID	IVID	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:54	03/09/25 00:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 11:54	03/09/25 00:09	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227	S1+	70 - 130	03/06/25 11:54	03/09/25 00:09	1
1,4-Difluorobenzene (Surr)	125		70 - 130	03/06/25 11:54	03/09/25 00:09	1

Eurofins Midland

-

3

-

_

8

11

3

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104611/1-A

Matrix: Solid

Analysis Batch: 104647

Client	Sample	ID:	Lab	Control	Samp	le

Prep Type: Total/NA

Prep Batch: 104611

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08835		mg/Kg		88	70 - 130	
Toluene	0.100	0.09760		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.09090		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1607		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.08440		mg/Kg		84	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104611

Lab Sample ID: LCSD 880-104611/2-A **Matrix: Solid**

Analysis Batch: 104647

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09062		mg/Kg		91	70 - 130	3	35
Toluene	0.100	0.09926		mg/Kg		99	70 - 130	2	35
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1944		mg/Kg		97	70 - 130	19	35
o-Xylene	0.100	0.08977		mg/Kg		90	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: 880-55262-21 MS

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: S-2 Prep Type: Total/NA Prep Batch: 104611

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Limits Result Qualifier Unit %Rec Benzene <0.00200 U 0.100 0.1044 mg/Kg 104 70 - 130 Toluene <0.00200 U 0.100 0.09813 mg/Kg 98 70 - 130 Ethylbenzene <0.00200 U 0.100 0.09513 mg/Kg 95 70 - 130 m-Xylene & p-Xylene <0.00399 U 0.200 0.1956 mg/Kg 98 70 - 130 0.100 o-Xylene <0.00200 U 0.09363 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-55262-21 MSD

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: S-2 Prep Type: Total/NA

Prep Batch: 104611

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1070		mg/Kg		107	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09565		mg/Kg		96	70 - 130	3	35
Ethylbenzene	< 0.00200	U	0.100	0.09317		mg/Kg		93	70 - 130	2	35

Eurofins Midland

Page 46 of 86

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Lab Sample ID: 880-55262-21 MSD

Matrix: Solid

Analysis Batch: 104647

Client Sample ID: S-2 Prep Type: Total/NA

Prep Batch: 104611

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1733		mg/Kg		87	70 - 130	12	35
o-Xylene	<0.00200	U	0.100	0.09075		mg/Kg		91	70 - 130	3	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-104565/1-A

Matrix: Solid

Analysis Batch: 104614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104565

	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		03/06/25 09:16	03/06/25 04:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:16	03/06/25 04:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:16	03/06/25 04:24	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	03/06/25 09:16	03/06/25 04:24	1
o-Terphenyl	101	70 - 130	03/06/25 09:16	03/06/25 04:24	1

Lab Sample ID: LCS 880-104565/2-A

Matrix: Solid

Analysis Batch: 104614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104565

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	917.5		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	955.7		mg/Kg		96	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifi	er Limits
1-Chlorooctane	108	70 - 130
o-Terphenyl	105	70 - 130

Lab Sample ID: LCSD 880-104565/3-A

Matrix: Solid

Analysis Batch: 104614

Client Sam	ple ID: Lab	Control	Sample	Dup
------------	-------------	---------	--------	-----

Prep Type: Total/NA

Prep Batch: 104565

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1044		mg/Kg		104	70 - 130	13	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1091		mg/Kg		109	70 - 130	13	20
C10-C28)									

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Limits

Job ID: 880-55262-1 SDG: Eddy Co NM

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

LCSD LCSD

Lab Sample ID: LCSD 880-104565/3-A **Matrix: Solid**

Analysis Batch: 104614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104565

%Recovery Qualifier Surrogate

1-Chlorooctane 120 70 - 130 o-Terphenyl 122 70 - 130

Lab Sample ID: 890-7770-A-3-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 104614

Prep Type: Total/NA

Prep Batch: 104565

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U 992 791.5 80 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 992 <49.9 U 751.6 mg/Kg 76 70 - 130C10-C28)

MS MS %Recovery

Lab Sample ID: 890-7770-A-3-E MSD

Surrogate Qualifier Limits 95 70 - 130 1-Chlorooctane 89 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104565

Sample Sample MSD MSD RPD Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.9 U 992 873.1 mg/Kg 88 70 - 130 10 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 992 787.6 mg/Kg 79 70 - 130 5 20 C10-C28)

Matrix: Solid

Analysis Batch: 104614

MSD MSD Qualifier Surrogate %Recovery Limits 70 - 130 1-Chlorooctane 109 o-Terphenyl 89 70 - 130

Lab Sample ID: MB 880-104566/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 104999

Prep Type: Total/NA

Prep Batch: 104566

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 03/06/25 09:16 03/11/25 15:28 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/06/25 09:16 03/11/25 15:28 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/06/25 09:16 03/11/25 15:28

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	03/06/25 09:16	03/11/25 15:28	1
o-Terphenyl	75		70 - 130	03/06/25 09:16	03/11/25 15:28	1

Eurofins Midland

3/12/2025

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104566/2-A

Lab Sample ID: LCSD 880-104566/3-A

Matrix: Solid Analysis Batch: 104999 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA

Prep Batch: 104566 %Rec Limits

Spike LCS LCS Added Analyte Result Qualifier Unit Gasoline Range Organics 1000 962.1 mg/Kg 96 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1040 mg/Kg 104 70 - 130 C10-C28)

Matrix: Solid

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104566

Analysis Batch: 104999 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 1000 936.4 94 70 - 130 3 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1016 mg/Kg 102 70 - 130 2 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery Qu	ualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-55262-22 MS

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: S-2 Prep Type: Total/NA

Prep Batch: 104566

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	994	681.2	F1	mg/Kg		69	70 - 130
Diesel Range Organics (Over	<49.8	U	994	774.4		mg/Kg		78	70 - 130

C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-55262-22 MSD

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: S-2 Prep Type: Total/NA

Prep Batch: 104566

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.8	U F1	994	680.4	F1	mg/Kg		68	70 - 130	0	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.8	U	994	765.7		mg/Kg		77	70 - 130	1	20	
C10-C28)												

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Lab Sample ID: 880-55262-22 MSD

Matrix: Solid

Analysis Batch: 104999

Client Sample ID: S-2 Prep Type: Total/NA

Prep Batch: 104566

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 84 70 - 130

Lab Sample ID: MB 880-104567/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 104784 Prep Batch: 104567

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/06/25 09:17 03/08/25 03:45 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/06/25 09:17 03/08/25 03:45 C10-C28) 03/06/25 09:17 Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/08/25 03:45

мв мв

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 98 70 - 130 03/06/25 09:17 1-Chlorooctane 03/08/25 03:45 88 70 - 130 03/06/25 09:17 03/08/25 03:45 o-Terphenyl

Lab Sample ID: LCS 880-104567/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 104784 Prep Batch: 104567 Spike LCS LCS

Analyte Added Result Qualifier Unit Limits D %Rec Gasoline Range Organics 1000 1108 mg/Kg 111 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1057 mg/Kg 106 70 - 130

C10-C28)

LCS LCS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 113 70 - 130 o-Terphenyl 100

Lab Sample ID: LCSD 880-104567/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 104784 Prep Batch: 104567

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 1000 994.2 99 70 - 130 11 20

Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1050 mg/Kg 105 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
1-Chlorooctane	112	70 - 130
o-Terphenyl	100	70 - 130

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Lab Sample ID: 880-55262-39 MS

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: S-5 Prep Type: Total/NA

Prep Batch: 104567

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	785.6		mg/Kg		79	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	999	827.8		mg/Kg		83	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 880-55262-39 MSD Client Sample ID: S-5

Matrix: Solid

Analysis Batch: 104784

Prep Type: Total/NA

Prep Batch: 104567

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	852.4		mg/Kg		85	70 - 130	8	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	854.5		mg/Kg		86	70 - 130	3	20
C40 C20)											

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: MB 880-104814/1-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 104814**

-	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		03/09/25 20:40	03/10/25 09:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 70 - 130 03/09/25 20:40 03/10/25 09:39 1-Chlorooctane 106 95 70 - 130 03/09/25 20:40 03/10/25 09:39 o-Terphenyl

Lab Sample ID: LCS 880-104814/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 104861 **Prep Batch: 104814**

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1015	-	mg/Kg		102	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	964.7		mg/Kg		96	70 - 130	
C10-C28)								

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104814/2-A

Matrix: Solid

Analysis Batch: 104861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104814

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 109
 70 - 130

 o-Terphenyl
 97
 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104814

Lab Sample ID: LCSD 880-104814/3-A Matrix: Solid

Lab Sample ID: 890-7787-A-1-H MS

Analysis Batch: 104861

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1010 101 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 95 951.8 mg/Kg 70 - 13020

C10-C28)

LCSD LCSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 109
 70 - 130

 o-Terphenyl
 95
 70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104814

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 996 833.6 mg/Kg 84 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 772.6 mg/Kg 78 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 104861

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 88
 70 - 130

 o-Terphenyl
 77
 70 - 130

Lab Sample ID: 890-7787-A-1-I MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 104861

Prep Type: Total/NA

Prep Batch: 104814

Sample Sample MSD MSD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 996 806.3 81 Gasoline Range Organics <49.9 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 773.4 mg/Kg 78 70 - 130 20

C10-C28)

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 88
 70 - 130

 o-Terphenyl
 77
 70 - 130

Eurofins Midland

2

Л

6

8

9

11

13

14

Client Sample ID: Method Blank

Prep Type: Soluble

Job ID: 880-55262-1

Client: Carmona Resources Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104630/1-A

Matrix: Solid

Analysis Batch: 104782

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/09/25 10:52	1

Lab Sample ID: LCS 880-104630/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104782

	Бріке	LCS I	LCS				%Rec	
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	
Chloride	250	248.3		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-104630/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104782

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	251.3		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-55262-8 MS Client Sample ID: S-1 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 104782

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	15.3		249	283.9		mg/Kg	_	108	90 - 110	

Lab Sample ID: 880-55262-8 MSD Client Sample ID: S-1 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 104782

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	15.3		249	284.8		mg/Kg		108	90 - 110		20

Lab Sample ID: MB 880-104631/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104783

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/09/25 15:38	1

MR MR

Lab Sample ID: LCS 880-104631/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104783

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	266.6	,	mg/Kg		107	90 - 110	

Lab Sample ID: LCSD 880-104631/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104783

Released to Imaging: 6/27/2025 1:22:45 PM

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 268.1 mg/Kg 107 90 - 110

Client: Carmona Resources Job ID: 880-55262-1 Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

Client Sample ID: S-3

Client Sample ID: S-5

Client Sample ID: S-5 **Prep Type: Soluble**

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: S-6

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-55262-28 MS				Client Sample ID: S-3
Matrix: Solid				Prep Type: Soluble
Analysis Batch: 104783				
	Sample Sample	Spike	MS MS	%Rec

Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 91.1 F1 248 377.3 F1 mg/Kg 115 90 - 110

Lab Sample ID: 880-55262-28 MSD

Matrix: Solid

Analysis Batch: 104783

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	91.1	F1	248	378.5	F1	mg/Kg		116	90 - 110	0	20

Lab Sample ID: 880-55262-38 MS

Matrix: Solid

Analysis Batch: 104783

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<10.1	U F1	253	298.1	F1	mg/Kg		116	90 - 110	

Lab Sample ID: 880-55262-38 MSD

Matrix: Solid

Analysis Batch: 104783

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<10.1	U F1	253	299.4	F1	mg/Kg		116	90 - 110	0	20

Lab Sample ID: MB 880-104632/1-A

Matrix: Solid

Analysis Batch: 104844

	111.0	141.0								
Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac	
Chloride	<10.0	U	10.0		mg/Kg			03/10/25 15:51	1	

Lab Sample ID: LCS 880-104632/2-A

Matrix: Solid

Analysis Batch: 104844

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

Lab Sample ID: LCSD 880-104632/3-A

Matrix: Solid

Analysis Batch: 104844

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	266.6		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-55262-48 MS

Matrix: Solid

Analysis Batch: 104844										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	532		250	802.6		mg/Kg		108	90 - 110	

Eurofins Midland

Released to Imaging: 6/27/2025 1:22:45 PM

Client: Carmona Resources

Job ID: 880-55262-1

Project/Site: Benson Shugart Waterflood #23

SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-55262-48 MSD

Matrix: Solid

Client Sample ID: S-6

Prep Type: Soluble

Analysis Batch: 104844

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	532		250	804.7		mg/Kg		109	90 - 110	0	20

4

4

6

9

11

12

14

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

GC VOA

Prep Batch: 104474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104474/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 104479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104479/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 104555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-55262-41	S-5	Total/NA	Solid	5035	
880-55262-42	S-5	Total/NA	Solid	5035	
880-55262-43	S-6	Total/NA	Solid	5035	
880-55262-44	S-6	Total/NA	Solid	5035	
880-55262-45	S-6	Total/NA	Solid	5035	
880-55262-46	S-6	Total/NA	Solid	5035	
880-55262-47	S-6	Total/NA	Solid	5035	
880-55262-48	S-6	Total/NA	Solid	5035	
880-55262-49	S-6	Total/NA	Solid	5035	
MB 880-104555/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104555/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104555/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7773-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7773-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 104558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-41	S-5	Total/NA	Solid	8021B	104555
880-55262-42	S-5	Total/NA	Solid	8021B	104555
880-55262-43	S-6	Total/NA	Solid	8021B	104555
880-55262-44	S-6	Total/NA	Solid	8021B	104555
880-55262-45	S-6	Total/NA	Solid	8021B	104555
880-55262-46	S-6	Total/NA	Solid	8021B	104555
880-55262-47	S-6	Total/NA	Solid	8021B	104555
880-55262-48	S-6	Total/NA	Solid	8021B	104555
880-55262-49	S-6	Total/NA	Solid	8021B	104555
MB 880-104555/5-A	Method Blank	Total/NA	Solid	8021B	104555
LCS 880-104555/1-A	Lab Control Sample	Total/NA	Solid	8021B	104555
LCSD 880-104555/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104555
890-7773-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	104555
890-7773-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104555

Prep Batch: 104609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	5035	
880-55262-2	S-1	Total/NA	Solid	5035	
880-55262-3	S-1	Total/NA	Solid	5035	
880-55262-4	S-1	Total/NA	Solid	5035	
880-55262-5	S-1	Total/NA	Solid	5035	
880-55262-6	S-1	Total/NA	Solid	5035	
880-55262-7	S-1	Total/NA	Solid	5035	
880-55262-8	S-1	Total/NA	Solid	5035	
880-55262-19	S-2	Total/NA	Solid	5035	

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

000.

GC VOA (Continued)

Prep Batch: 104609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-20	S-2	Total/NA	Solid	5035	
MB 880-104609/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104609/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104609/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55262-1 MS	S-1	Total/NA	Solid	5035	
880-55262-1 MSD	S-1	Total/NA	Solid	5035	

Prep Batch: 104611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-21	S-2	Total/NA	Solid	5035	
880-55262-22	S-2	Total/NA	Solid	5035	
880-55262-23	S-2	Total/NA	Solid	5035	
880-55262-24	S-2	Total/NA	Solid	5035	
880-55262-25	S-3	Total/NA	Solid	5035	
880-55262-26	S-3	Total/NA	Solid	5035	
880-55262-27	S-3	Total/NA	Solid	5035	
880-55262-28	S-3	Total/NA	Solid	5035	
880-55262-29	S-3	Total/NA	Solid	5035	
880-55262-30	S-3	Total/NA	Solid	5035	
880-55262-31	S-4	Total/NA	Solid	5035	
880-55262-32	S-4	Total/NA	Solid	5035	
880-55262-33	S-4	Total/NA	Solid	5035	
880-55262-34	S-4	Total/NA	Solid	5035	
880-55262-35	S-4	Total/NA	Solid	5035	
880-55262-36	S-4	Total/NA	Solid	5035	
880-55262-37	S-5	Total/NA	Solid	5035	
880-55262-38	S-5	Total/NA	Solid	5035	
880-55262-39	S-5	Total/NA	Solid	5035	
880-55262-40	S-5	Total/NA	Solid	5035	
MB 880-104611/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104611/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104611/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55262-21 MS	S-2	Total/NA	Solid	5035	
880-55262-21 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 104647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-21	S-2	Total/NA	Solid	8021B	104611
880-55262-22	S-2	Total/NA	Solid	8021B	104611
880-55262-23	S-2	Total/NA	Solid	8021B	104611
880-55262-24	S-2	Total/NA	Solid	8021B	104611
880-55262-25	S-3	Total/NA	Solid	8021B	104611
880-55262-26	S-3	Total/NA	Solid	8021B	104611
880-55262-27	S-3	Total/NA	Solid	8021B	104611
880-55262-28	S-3	Total/NA	Solid	8021B	104611
880-55262-29	S-3	Total/NA	Solid	8021B	104611
880-55262-30	S-3	Total/NA	Solid	8021B	104611
880-55262-31	S-4	Total/NA	Solid	8021B	104611
880-55262-32	S-4	Total/NA	Solid	8021B	104611
880-55262-33	S-4	Total/NA	Solid	8021B	104611
880-55262-34	S-4	Total/NA	Solid	8021B	104611

Eurofins Midland

9

3

6

8

10

13

14

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

GC VOA (Continued)

Analysis Batch: 104647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-35	S-4	Total/NA	Solid	8021B	104611
880-55262-36	S-4	Total/NA	Solid	8021B	104611
880-55262-37	S-5	Total/NA	Solid	8021B	104611
880-55262-38	S-5	Total/NA	Solid	8021B	104611
880-55262-39	S-5	Total/NA	Solid	8021B	104611
880-55262-40	S-5	Total/NA	Solid	8021B	104611
MB 880-104474/5-A	Method Blank	Total/NA	Solid	8021B	104474
MB 880-104611/5-A	Method Blank	Total/NA	Solid	8021B	104611
LCS 880-104611/1-A	Lab Control Sample	Total/NA	Solid	8021B	104611
LCSD 880-104611/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104611
880-55262-21 MS	S-2	Total/NA	Solid	8021B	104611
880-55262-21 MSD	S-2	Total/NA	Solid	8021B	104611

Analysis Batch: 104732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-55262-1	S-1	Total/NA	Solid	Total BTEX	
880-55262-2	S-1	Total/NA	Solid	Total BTEX	
880-55262-3	S-1	Total/NA	Solid	Total BTEX	
880-55262-4	S-1	Total/NA	Solid	Total BTEX	
880-55262-5	S-1	Total/NA	Solid	Total BTEX	
880-55262-6	S-1	Total/NA	Solid	Total BTEX	
880-55262-7	S-1	Total/NA	Solid	Total BTEX	
880-55262-8	S-1	Total/NA	Solid	Total BTEX	
880-55262-19	S-2	Total/NA	Solid	Total BTEX	
880-55262-20	S-2	Total/NA	Solid	Total BTEX	
880-55262-21	S-2	Total/NA	Solid	Total BTEX	
880-55262-22	S-2	Total/NA	Solid	Total BTEX	
880-55262-23	S-2	Total/NA	Solid	Total BTEX	
880-55262-24	S-2	Total/NA	Solid	Total BTEX	
880-55262-25	S-3	Total/NA	Solid	Total BTEX	
880-55262-26	S-3	Total/NA	Solid	Total BTEX	
880-55262-27	S-3	Total/NA	Solid	Total BTEX	
880-55262-28	S-3	Total/NA	Solid	Total BTEX	
880-55262-29	S-3	Total/NA	Solid	Total BTEX	
880-55262-30	S-3	Total/NA	Solid	Total BTEX	
880-55262-31	S-4	Total/NA	Solid	Total BTEX	
880-55262-32	S-4	Total/NA	Solid	Total BTEX	
880-55262-33	S-4	Total/NA	Solid	Total BTEX	
880-55262-34	S-4	Total/NA	Solid	Total BTEX	
880-55262-35	S-4	Total/NA	Solid	Total BTEX	
880-55262-36	S-4	Total/NA	Solid	Total BTEX	
880-55262-37	S-5	Total/NA	Solid	Total BTEX	
880-55262-38	S-5	Total/NA	Solid	Total BTEX	
880-55262-39	S-5	Total/NA	Solid	Total BTEX	
880-55262-40	S-5	Total/NA	Solid	Total BTEX	
880-55262-41	S-5	Total/NA	Solid	Total BTEX	
880-55262-42	S-5	Total/NA	Solid	Total BTEX	
880-55262-43	S-6	Total/NA	Solid	Total BTEX	
880-55262-44	S-6	Total/NA	Solid	Total BTEX	
880-55262-45	S-6	Total/NA	Solid	Total BTEX	
880-55262-46	S-6	Total/NA	Solid	Total BTEX	

Eurofins Midland

1

3

4

6

8

9

11

13

14

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

GC VOA (Continued)

Analysis Batch: 104732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep B	3atch
880-55262-47	S-6	Total/NA	Solid	Total BTEX	
880-55262-48	S-6	Total/NA	Solid	Total BTEX	
880-55262-49	S-6	Total/NA	Solid	Total BTEX	

Analysis Batch: 104771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	8021B	104609
880-55262-2	S-1	Total/NA	Solid	8021B	104609
880-55262-3	S-1	Total/NA	Solid	8021B	104609
880-55262-4	S-1	Total/NA	Solid	8021B	104609
880-55262-5	S-1	Total/NA	Solid	8021B	104609
880-55262-6	S-1	Total/NA	Solid	8021B	104609
880-55262-7	S-1	Total/NA	Solid	8021B	104609
880-55262-8	S-1	Total/NA	Solid	8021B	104609
880-55262-19	S-2	Total/NA	Solid	8021B	104609
880-55262-20	S-2	Total/NA	Solid	8021B	104609
MB 880-104479/5-A	Method Blank	Total/NA	Solid	8021B	104479
MB 880-104609/5-A	Method Blank	Total/NA	Solid	8021B	104609
LCS 880-104609/1-A	Lab Control Sample	Total/NA	Solid	8021B	104609
LCSD 880-104609/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104609
880-55262-1 MS	S-1	Total/NA	Solid	8021B	104609
880-55262-1 MSD	S-1	Total/NA	Solid	8021B	104609

GC Semi VOA

Prep Batch: 104565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-55262-1	S-1	Total/NA	Solid	8015NM Prep	
880-55262-2	S-1	Total/NA	Solid	8015NM Prep	
880-55262-3	S-1	Total/NA	Solid	8015NM Prep	
880-55262-4	S-1	Total/NA	Solid	8015NM Prep	
880-55262-5	S-1	Total/NA	Solid	8015NM Prep	
880-55262-6	S-1	Total/NA	Solid	8015NM Prep	
880-55262-7	S-1	Total/NA	Solid	8015NM Prep	
880-55262-8	S-1	Total/NA	Solid	8015NM Prep	
MB 880-104565/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104565/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104565/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7770-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7770-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 104566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-19	S-2	Total/NA	Solid	8015NM Prep	
880-55262-20	S-2	Total/NA	Solid	8015NM Prep	
880-55262-21	S-2	Total/NA	Solid	8015NM Prep	
880-55262-22	S-2	Total/NA	Solid	8015NM Prep	
880-55262-23	S-2	Total/NA	Solid	8015NM Prep	
880-55262-24	S-2	Total/NA	Solid	8015NM Prep	
880-55262-25	S-3	Total/NA	Solid	8015NM Prep	
880-55262-26	S-3	Total/NA	Solid	8015NM Prep	

Released to Imaging: 6/27/2025 1:22:45 PM

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

GC Semi VOA (Continued)

Prep Batch: 104566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-27	S-3	Total/NA	Solid	8015NM Prep	
880-55262-28	S-3	Total/NA	Solid	8015NM Prep	
880-55262-29	S-3	Total/NA	Solid	8015NM Prep	
880-55262-30	S-3	Total/NA	Solid	8015NM Prep	
880-55262-31	S-4	Total/NA	Solid	8015NM Prep	
880-55262-32	S-4	Total/NA	Solid	8015NM Prep	
880-55262-33	S-4	Total/NA	Solid	8015NM Prep	
880-55262-34	S-4	Total/NA	Solid	8015NM Prep	
880-55262-35	S-4	Total/NA	Solid	8015NM Prep	
880-55262-36	S-4	Total/NA	Solid	8015NM Prep	
880-55262-37	S-5	Total/NA	Solid	8015NM Prep	
880-55262-38	S-5	Total/NA	Solid	8015NM Prep	
MB 880-104566/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104566/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104566/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55262-22 MS	S-2	Total/NA	Solid	8015NM Prep	
880-55262-22 MSD	S-2	Total/NA	Solid	8015NM Prep	

Prep Batch: 104567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-39	S-5	Total/NA	Solid	8015NM Prep	
880-55262-40	S-5	Total/NA	Solid	8015NM Prep	
880-55262-41	S-5	Total/NA	Solid	8015NM Prep	
880-55262-42	S-5	Total/NA	Solid	8015NM Prep	
880-55262-43	S-6	Total/NA	Solid	8015NM Prep	
880-55262-44	S-6	Total/NA	Solid	8015NM Prep	
880-55262-45	S-6	Total/NA	Solid	8015NM Prep	
880-55262-47	S-6	Total/NA	Solid	8015NM Prep	
880-55262-48	S-6	Total/NA	Solid	8015NM Prep	
880-55262-49	S-6	Total/NA	Solid	8015NM Prep	
MB 880-104567/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104567/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55262-39 MS	S-5	Total/NA	Solid	8015NM Prep	
880-55262-39 MSD	S-5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	8015B NM	104565
880-55262-2	S-1	Total/NA	Solid	8015B NM	104565
880-55262-3	S-1	Total/NA	Solid	8015B NM	104565
880-55262-4	S-1	Total/NA	Solid	8015B NM	104565
880-55262-5	S-1	Total/NA	Solid	8015B NM	104565
880-55262-6	S-1	Total/NA	Solid	8015B NM	104565
880-55262-7	S-1	Total/NA	Solid	8015B NM	104565
880-55262-8	S-1	Total/NA	Solid	8015B NM	104565
MB 880-104565/1-A	Method Blank	Total/NA	Solid	8015B NM	104565
LCS 880-104565/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104565
LCSD 880-104565/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104565
890-7770-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	104565
890-7770-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104565

Eurofins Midland

_

5

9

11

12

14

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

GC Semi VOA

Analysis Batch: 104761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Total/NA	Solid	8015 NM	
880-55262-2	S-1	Total/NA	Solid	8015 NM	
880-55262-3	S-1	Total/NA	Solid	8015 NM	
880-55262-4	S-1	Total/NA	Solid	8015 NM	
880-55262-5	S-1	Total/NA	Solid	8015 NM	
880-55262-6	S-1	Total/NA	Solid	8015 NM	
880-55262-7	S-1	Total/NA	Solid	8015 NM	
880-55262-8	S-1	Total/NA	Solid	8015 NM	
880-55262-19	S-2	Total/NA	Solid	8015 NM	
880-55262-20	S-2	Total/NA	Solid	8015 NM	
880-55262-21	S-2	Total/NA	Solid	8015 NM	
880-55262-22	S-2	Total/NA	Solid	8015 NM	
880-55262-23	S-2	Total/NA	Solid	8015 NM	
880-55262-24	S-2	Total/NA	Solid	8015 NM	
880-55262-25	S-3	Total/NA	Solid	8015 NM	
880-55262-26	S-3	Total/NA	Solid	8015 NM	
880-55262-27	S-3	Total/NA	Solid	8015 NM	
880-55262-28	S-3	Total/NA	Solid	8015 NM	
880-55262-29	S-3	Total/NA	Solid	8015 NM	
880-55262-30	S-3	Total/NA	Solid	8015 NM	
880-55262-31	S-4	Total/NA	Solid	8015 NM	
880-55262-32	S-4	Total/NA	Solid	8015 NM	
880-55262-33	S-4	Total/NA	Solid	8015 NM	
880-55262-34	S-4	Total/NA	Solid	8015 NM	
880-55262-35	S-4	Total/NA	Solid	8015 NM	
880-55262-36	S-4	Total/NA	Solid	8015 NM	
880-55262-37	S-5	Total/NA	Solid	8015 NM	
880-55262-38	S-5	Total/NA	Solid	8015 NM	
880-55262-39	S-5	Total/NA	Solid	8015 NM	
880-55262-40	S-5	Total/NA	Solid	8015 NM	
880-55262-41	S-5	Total/NA	Solid	8015 NM	
880-55262-42	S-5	Total/NA	Solid	8015 NM	
880-55262-43	S-6	Total/NA	Solid	8015 NM	
880-55262-44	S-6	Total/NA	Solid	8015 NM	
880-55262-45	S-6	Total/NA	Solid	8015 NM	
880-55262-46	S-6	Total/NA	Solid	8015 NM	
880-55262-47	S-6	Total/NA	Solid	8015 NM	
880-55262-48	S-6	Total/NA	Solid	8015 NM	
880-55262-49	S-6	Total/NA	Solid	8015 NM	

Analysis Batch: 104784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-39	S-5	Total/NA	Solid	8015B NM	104567
880-55262-40	S-5	Total/NA	Solid	8015B NM	104567
880-55262-41	S-5	Total/NA	Solid	8015B NM	104567
880-55262-42	S-5	Total/NA	Solid	8015B NM	104567
880-55262-43	S-6	Total/NA	Solid	8015B NM	104567
880-55262-44	S-6	Total/NA	Solid	8015B NM	104567
880-55262-45	S-6	Total/NA	Solid	8015B NM	104567
880-55262-47	S-6	Total/NA	Solid	8015B NM	104567
880-55262-48	S-6	Total/NA	Solid	8015B NM	104567

Eurofins Midland

2

3

5

_

9

11

13

14

Released to Imaging: 6/27/2025 1:22:45 PM

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

GC Semi VOA (Continued)

Analysis Batch: 104784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-49	S-6	Total/NA	Solid	8015B NM	104567
MB 880-104567/1-A	Method Blank	Total/NA	Solid	8015B NM	104567
LCS 880-104567/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104567
LCSD 880-104567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104567
880-55262-39 MS	S-5	Total/NA	Solid	8015B NM	104567
880-55262-39 MSD	S-5	Total/NA	Solid	8015B NM	104567

Prep Batch: 104814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-46	S-6	Total/NA	Solid	8015NM Prep	
MB 880-104814/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104814/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7787-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7787-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-46	S-6	Total/NA	Solid	8015B NM	104814
MB 880-104814/1-A	Method Blank	Total/NA	Solid	8015B NM	104814
LCS 880-104814/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104814
LCSD 880-104814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104814
890-7787-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	104814
890-7787-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104814

Analysis Batch: 104999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-19	S-2	Total/NA	Solid	8015B NM	104566
880-55262-20	S-2	Total/NA	Solid	8015B NM	104566
880-55262-21	S-2	Total/NA	Solid	8015B NM	104566
880-55262-22	S-2	Total/NA	Solid	8015B NM	104566
880-55262-23	S-2	Total/NA	Solid	8015B NM	104566
880-55262-24	S-2	Total/NA	Solid	8015B NM	104566
880-55262-25	S-3	Total/NA	Solid	8015B NM	104566
880-55262-26	S-3	Total/NA	Solid	8015B NM	104566
880-55262-27	S-3	Total/NA	Solid	8015B NM	104566
880-55262-28	S-3	Total/NA	Solid	8015B NM	104566
880-55262-29	S-3	Total/NA	Solid	8015B NM	104566
880-55262-30	S-3	Total/NA	Solid	8015B NM	104566
880-55262-31	S-4	Total/NA	Solid	8015B NM	104566
880-55262-32	S-4	Total/NA	Solid	8015B NM	104566
880-55262-33	S-4	Total/NA	Solid	8015B NM	104566
880-55262-34	S-4	Total/NA	Solid	8015B NM	104566
880-55262-35	S-4	Total/NA	Solid	8015B NM	104566
880-55262-36	S-4	Total/NA	Solid	8015B NM	104566
880-55262-37	S-5	Total/NA	Solid	8015B NM	104566
880-55262-38	S-5	Total/NA	Solid	8015B NM	104566
MB 880-104566/1-A	Method Blank	Total/NA	Solid	8015B NM	104566
LCS 880-104566/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104566
LCSD 880-104566/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104566
880-55262-22 MS	S-2	Total/NA	Solid	8015B NM	104566

Eurofins Midland

2

3

4

6

9

TU

A

14

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

GC Semi VOA (Continued)

Analysis Batch: 104999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-22 MSD	S-2	Total/NA	Solid	8015B NM	104566

HPLC/IC

Leach Batch: 104630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Soluble	Solid	DI Leach	
880-55262-2	S-1	Soluble	Solid	DI Leach	
880-55262-3	S-1	Soluble	Solid	DI Leach	
880-55262-4	S-1	Soluble	Solid	DI Leach	
880-55262-5	S-1	Soluble	Solid	DI Leach	
880-55262-6	S-1	Soluble	Solid	DI Leach	
880-55262-7	S-1	Soluble	Solid	DI Leach	
880-55262-8	S-1	Soluble	Solid	DI Leach	
880-55262-19	S-2	Soluble	Solid	DI Leach	
880-55262-20	S-2	Soluble	Solid	DI Leach	
880-55262-21	S-2	Soluble	Solid	DI Leach	
880-55262-22	S-2	Soluble	Solid	DI Leach	
880-55262-23	S-2	Soluble	Solid	DI Leach	
880-55262-24	S-2	Soluble	Solid	DI Leach	
880-55262-25	S-3	Soluble	Solid	DI Leach	
880-55262-26	S-3	Soluble	Solid	DI Leach	
880-55262-27	S-3	Soluble	Solid	DI Leach	
MB 880-104630/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104630/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104630/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55262-8 MS	S-1	Soluble	Solid	DI Leach	
880-55262-8 MSD	S-1	Soluble	Solid	DI Leach	

Leach Batch: 104631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-28	S-3	Soluble	Solid	DI Leach	
880-55262-29	S-3	Soluble	Solid	DI Leach	
880-55262-30	S-3	Soluble	Solid	DI Leach	
880-55262-31	S-4	Soluble	Solid	DI Leach	
880-55262-32	S-4	Soluble	Solid	DI Leach	
880-55262-33	S-4	Soluble	Solid	DI Leach	
880-55262-34	S-4	Soluble	Solid	DI Leach	
880-55262-35	S-4	Soluble	Solid	DI Leach	
880-55262-36	S-4	Soluble	Solid	DI Leach	
880-55262-37	S-5	Soluble	Solid	DI Leach	
380-55262-38	S-5	Soluble	Solid	DI Leach	
380-55262-39	S-5	Soluble	Solid	DI Leach	
880-55262-40	S-5	Soluble	Solid	DI Leach	
880-55262-41	S-5	Soluble	Solid	DI Leach	
880-55262-42	S-5	Soluble	Solid	DI Leach	
880-55262-43	S-6	Soluble	Solid	DI Leach	
880-55262-44	S-6	Soluble	Solid	DI Leach	
880-55262-45	S-6	Soluble	Solid	DI Leach	
880-55262-46	S-6	Soluble	Solid	DI Leach	
880-55262-47	S-6	Soluble	Solid	DI Leach	

Eurofins Midland

Released to Imaging: 6/27/2025 1:22:45 PM

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

HPLC/IC (Continued)

Leach Batch: 104631 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104631/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104631/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104631/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55262-28 MS	S-3	Soluble	Solid	DI Leach	
880-55262-28 MSD	S-3	Soluble	Solid	DI Leach	
880-55262-38 MS	S-5	Soluble	Solid	DI Leach	
880-55262-38 MSD	S-5	Soluble	Solid	DI Leach	

Leach Batch: 104632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-48	S-6	Soluble	Solid	DI Leach	
880-55262-49	S-6	Soluble	Solid	DI Leach	
MB 880-104632/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104632/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104632/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55262-48 MS	S-6	Soluble	Solid	DI Leach	
880-55262-48 MSD	S-6	Soluble	Solid	DI Leach	

Analysis Batch: 104782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-1	S-1	Soluble	Solid	300.0	104630
880-55262-2	S-1	Soluble	Solid	300.0	104630
880-55262-3	S-1	Soluble	Solid	300.0	104630
880-55262-4	S-1	Soluble	Solid	300.0	104630
880-55262-5	S-1	Soluble	Solid	300.0	104630
880-55262-6	S-1	Soluble	Solid	300.0	104630
880-55262-7	S-1	Soluble	Solid	300.0	104630
880-55262-8	S-1	Soluble	Solid	300.0	104630
880-55262-19	S-2	Soluble	Solid	300.0	104630
880-55262-20	S-2	Soluble	Solid	300.0	104630
880-55262-21	S-2	Soluble	Solid	300.0	104630
880-55262-22	S-2	Soluble	Solid	300.0	104630
880-55262-23	S-2	Soluble	Solid	300.0	104630
880-55262-24	S-2	Soluble	Solid	300.0	104630
880-55262-25	S-3	Soluble	Solid	300.0	104630
880-55262-26	S-3	Soluble	Solid	300.0	104630
880-55262-27	S-3	Soluble	Solid	300.0	104630
MB 880-104630/1-A	Method Blank	Soluble	Solid	300.0	104630
LCS 880-104630/2-A	Lab Control Sample	Soluble	Solid	300.0	104630
LCSD 880-104630/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104630
880-55262-8 MS	S-1	Soluble	Solid	300.0	104630
880-55262-8 MSD	S-1	Soluble	Solid	300.0	104630

Analysis Batch: 104783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-28	S-3	Soluble	Solid	300.0	104631
880-55262-29	S-3	Soluble	Solid	300.0	104631
880-55262-30	S-3	Soluble	Solid	300.0	104631
880-55262-31	S-4	Soluble	Solid	300.0	104631
880-55262-32	S-4	Soluble	Solid	300.0	104631
880-55262-33	S-4	Soluble	Solid	300.0	104631

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1 SDG: Eddy Co NM

HPLC/IC (Continued)

Analysis Batch: 104783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-34	S-4	Soluble	Solid	300.0	104631
880-55262-35	S-4	Soluble	Solid	300.0	104631
880-55262-36	S-4	Soluble	Solid	300.0	104631
880-55262-37	S-5	Soluble	Solid	300.0	104631
880-55262-38	S-5	Soluble	Solid	300.0	104631
880-55262-39	S-5	Soluble	Solid	300.0	104631
880-55262-40	S-5	Soluble	Solid	300.0	104631
880-55262-41	S-5	Soluble	Solid	300.0	104631
880-55262-42	S-5	Soluble	Solid	300.0	104631
880-55262-43	S-6	Soluble	Solid	300.0	104631
880-55262-44	S-6	Soluble	Solid	300.0	104631
880-55262-45	S-6	Soluble	Solid	300.0	104631
880-55262-46	S-6	Soluble	Solid	300.0	104631
880-55262-47	S-6	Soluble	Solid	300.0	104631
MB 880-104631/1-A	Method Blank	Soluble	Solid	300.0	104631
LCS 880-104631/2-A	Lab Control Sample	Soluble	Solid	300.0	104631
LCSD 880-104631/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104631
880-55262-28 MS	S-3	Soluble	Solid	300.0	104631
880-55262-28 MSD	S-3	Soluble	Solid	300.0	104631
880-55262-38 MS	S-5	Soluble	Solid	300.0	104631
880-55262-38 MSD	S-5	Soluble	Solid	300.0	104631

Analysis Batch: 104844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55262-48	S-6	Soluble	Solid	300.0	104632
880-55262-49	S-6	Soluble	Solid	300.0	104632
MB 880-104632/1-A	Method Blank	Soluble	Solid	300.0	104632
LCS 880-104632/2-A	Lab Control Sample	Soluble	Solid	300.0	104632
LCSD 880-104632/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104632
880-55262-48 MS	S-6	Soluble	Solid	300.0	104632
880-55262-48 MSD	S-6	Soluble	Solid	300.0	104632

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 04:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 21:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 21:44	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 11:40	CH	EET MID

Client Sample ID: S-1 Lab Sample ID: 880-55262-2

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 04:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 22:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 22:00	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 11:47	CH	EET MID

Client Sample ID: S-1

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Lab Sample ID: 880-55262-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 05:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 05:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 22:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 22:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 12:05	CH	EET MID

Client Sample ID: S-1

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Lab Sample I	D: 880-55262-4
--------------	----------------

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 05:37	AJ	EET MID

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104761	03/06/25 22:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 22:33	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 12:11	CH	EET MID

Lab Sample ID: 880-55262-5 Client Sample ID: S-1

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 05:57	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			104761	03/06/25 22:49	AJ	EET MIC
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 22:49	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 12:17	CH	EET MID

Client Sample ID: S-1 Lab Sample ID: 880-55262-6

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 06:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 23:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 23:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	104782	03/09/25 12:23	CH	EET MID

Lab Sample ID: 880-55262-7 Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 06:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 23:21	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	104565 104614	03/06/25 09:17 03/06/25 23:21	EL TKC	EET MID EET MID

Eurofins Midland

Matrix: Solid

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	104782	03/09/25 12:29	CH	EET MID

Client Sample ID: S-1 Lab Sample ID: 880-55262-8

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 06:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/06/25 23:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104565	03/06/25 09:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104614	03/06/25 23:37	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/10/25 12:35	CH	EET MID

Client Sample ID: S-2 Lab Sample ID: 880-55262-19

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 07:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 17:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 17:14	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 12:54	CH	EET MID

Client Sample ID: S-2 Lab Sample ID: 880-55262-20

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104609	03/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 07:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 17:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 17:29	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 13:00	CH	EET MID

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-2

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Lab Sample ID: 880-55262-21

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 00:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 17:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 17:44	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 13:18	CH	EET MID

Client Sample ID: S-2 Lab Sample ID: 880-55262-22

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.95 g 5 mL 104611 03/06/25 11:54 MNR EET MID Total/NA 8021B 5 mL 03/09/25 00:58 **EET MID** Analysis 1 5 mL 104647 MNR Total/NA Total BTEX 104732 03/09/25 00:58 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 104761 03/11/25 16:29 **EET MID** Total/NA 104566 03/06/25 09:20 EL Prep 8015NM Prep 10.05 g 10 mL EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 104999 03/11/25 16:29 TKC **EET MID**

Client Sample ID: S-2 Lab Sample ID: 880-55262-23

4.99 g

50 mL

50 mL

50 mL

104630

104782

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

Matrix: Solid

СН

СН

03/06/25 13:01

03/09/25 13:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 01:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 01:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 17:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 17:59	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 14:43	CH	EET MID

Client Sample ID: S-2 Lab Sample ID: 880-55262-24

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 01:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 01:39	AJ	EET MID

Eurofins Midland

Page 69 of 86

Matrix: Solid

EET MID

EET MID

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Lab Sample ID: 880-55262-24

Matrix: Solid

Client Sample ID: S-2

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104761	03/11/25 18:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 18:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 14:49	CH	EET MID

Client Sample ID: S-3 Lab Sample ID: 880-55262-25 **Matrix: Solid**

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 01:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 01:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 18:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 18:29	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 14:56	CH	EET MID

Client Sample ID: S-3 Lab Sample ID: 880-55262-26

Date Collected: 03/04/25 00:00 **Matrix: Solid** Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 03:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 03:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 18:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 18:45	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	104630	03/06/25 13:01	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 15:02	CH	EET MID

Lab Sample ID: 880-55262-27 Client Sample ID: S-3

Date Collected: 03/04/25 00:00 **Matrix: Solid** Date Received: 03/05/25 16:08

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 03:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 03:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 19:00	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	104566 104999	03/06/25 09:20 03/11/25 19:00	EL TKC	EET MID EET MID

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-3

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	104630	03/06/25 13:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104782	03/09/25 15:08	CH	EET MID

Client Sample ID: S-3 Lab Sample ID: 880-55262-28

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 04:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 19:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 19:15	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 15:56	CH	EET MID

Client Sample ID: S-3 Lab Sample ID: 880-55262-29

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 04:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 19:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 19:45	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:15	CH	EET MID

Client Sample ID: S-3 Lab Sample ID: 880-55262-30

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 04:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 04:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 19:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 19:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:21	CH	EET MID

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-4

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Lab Sample ID: 880-55262-31

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 06:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 06:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 20:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 20:14	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:27	CH	EET MID

Client Sample ID: S-4 Lab Sample ID: 880-55262-32

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.05 g 5 mL 104611 03/06/25 11:54 MNR EET MID Total/NA 8021B 5 mL 104647 03/09/25 06:52 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 104732 03/09/25 06:52 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 104761 03/11/25 20:30 **EET MID** Total/NA 104566 03/06/25 09:20 EL Prep 8015NM Prep 10.03 g 10 mL EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 104999 03/11/25 20:30 TKC **EET MID** Soluble 03/06/25 13:02 СН Leach DI Leach 4.98 g 50 mL 104631 **EET MID** Soluble Analysis 300.0 50 mL 50 mL 104783 03/09/25 16:33 СН **EET MID**

Client Sample ID: S-4 Lab Sample ID: 880-55262-33

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 07:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 20:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 20:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:52	CH	EET MID

Client Sample ID: S-4 Lab Sample ID: 880-55262-34

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 07:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:33	AJ	EET MID

Eurofins Midland

Matrix: Solid

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-4

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-34

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104761	03/11/25 21:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 21:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 16:58	CH	EET MID

Client Sample ID: S-4

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

_ab	San	ıpıe	:טו	880-	-5526	2-35
				N/I	atriv.	Calid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 07:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 07:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 21:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 21:15	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:04	CH	EET MID

Client Sample ID: S-4 Lab Sample ID: 880-55262-36

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 08:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 08:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 21:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 21:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:10	CH	EET MID

Lab Sample ID: 880-55262-37 Client Sample ID: S-5

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 08:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 08:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 21:45	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	104566 104999	03/06/25 09:20 03/11/25 21:45	EL TKC	EET MID EET MID

Eurofins Midland

Page 73 of 86

Matrix: Solid

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-5

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-37

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	104631	03/06/25 13:02	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:16	CH	EET MID

Client Sample ID: S-5 Lab Sample ID: 880-55262-38

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 08:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 08:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/11/25 22:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104566	03/06/25 09:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104999	03/11/25 22:01	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:22	CH	EET MID

Client Sample ID: S-5 Lab Sample ID: 880-55262-39

Date Collected: 03/04/25 00:00

Matrix: Solid

Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 09:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 09:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 04:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 04:31	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:40	CH	EET MID

Client Sample ID: S-5 Lab Sample ID: 880-55262-40

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104611	03/06/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104647	03/09/25 09:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/09/25 09:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 05:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 05:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 17:47	CH	EET MID

Date Received: 03/05/25 16:08

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-5 Lab Sample ID: 880-55262-41 Date Collected: 03/04/25 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 16:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 05:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 05:33	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:05	CH	EET MID

Client Sample ID: S-5 Lab Sample ID: 880-55262-42

Date Collected: 03/04/25 00:00

Analysis

300.0

Soluble

Matrix: Solid

Date Received: 03/05/25 16:08

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.05 g 5 mL 104555 03/06/25 11:48 MNR EET MID Total/NA 8021B 5 mL 104558 03/06/25 17:01 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 104732 03/06/25 17:01 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 104761 03/08/25 05:47 **EET MID** Total/NA 104567 EL Prep 8015NM Prep 10.04 g 10 mL 03/06/25 09:31 EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 104784 03/08/25 05:47 TKC **EET MID** Soluble 03/06/25 13:02 СН Leach DI Leach 5.04 g 50 mL 104631 **EET MID**

Client Sample ID: S-6 Lab Sample ID: 880-55262-43

50 mL

50 mL

104783

03/09/25 18:11

СН

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 17:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 06:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 06:02	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:17	CH	EET MID

Client Sample ID: S-6 Lab Sample ID: 880-55262-44

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 17:42	AJ	EET MID

Eurofins Midland

Matrix: Solid

EET MID

Matrix: Solid

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Client Sample ID: S-6

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55262-44

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104761	03/08/25 06:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 06:17	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:23	CH	EET MID

Client Sample ID: S-6 Lab Sample ID: 880-55262-45

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 18:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 06:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 06:33	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:29	CH	EET MID

Client Sample ID: S-6 Lab Sample ID: 880-55262-46

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 18:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/10/25 15:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104861	03/10/25 15:55	TKC	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	104814	03/10/25 17:18	EL	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104631	03/06/25 13:02	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104783	03/09/25 18:35	CH	EET MID

Lab Sample ID: 880-55262-47 Client Sample ID: S-6

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 18:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 07:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 07:02	TKC	EET MID

Eurofins Midland

Matrix: Solid

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Analysis

300.0

Job ID: 880-55262-1

03/09/25 18:41

CH

104783

50 mL

SDG: Eddy Co NM

Client Sample ID: S-6 Lab Sample ID: 880-55262-47 Date Collected: 03/04/25 00:00

Matrix: Solid

EET MID

Date Received: 03/05/25 16:08

T. Company										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	104631	03/06/25 13:02	CH	EET MID

Client Sample ID: S-6 Lab Sample ID: 880-55262-48

Date Collected: 03/04/25 00:00 **Matrix: Solid**

50 mL

Date Received: 03/05/25 16:08

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104555	03/06/25 11:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 19:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104761	03/08/25 07:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 07:17	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	104632	03/06/25 13:03	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:09	CH	EET MID

Client Sample ID: S-6 Lab Sample ID: 880-55262-49

Date Collected: 03/04/25 00:00 **Matrix: Solid**

Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	104555	03/06/25 11:48	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	104558	03/06/25 19:25	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			104732	03/06/25 19:25	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			104761	03/08/25 07:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104567	03/06/25 09:31	EL	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 07:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:27	CH	EET MID

Laboratory References:

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

Eurofins Midland

Released to Imaging: 6/27/2025 1:22:45 PM

Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Laboratory: Eurofins Midland

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

Authority	Progra	ım	Identification Number	Expiration Date
Texas	NELAF)	T104704400	06-30-25
,	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This list	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
		Solid	Total BTEX	

Method Summary

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55262-1

SDG: Eddy Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-55262-1	S-1	Solid	03/04/25 00:00	03/05/25 16:08	0-1
880-55262-2	S-1	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-3	S-1	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-4	S-1	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-5	S-1	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-6	S-1	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-7	S-1	Solid	03/04/25 00:00	03/05/25 16:08	6'
880-55262-8	S-1	Solid	03/04/25 00:00	03/05/25 16:08	7'
880-55262-19	S-2	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-20	S-2	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-21	S-2	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-22	S-2	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-23	S-2	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-24	S-2	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-25	S-3	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-26	S-3	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-27	S-3	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-28	S-3	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-29	S-3	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-30	S-3	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-31	S-4	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-32	S-4	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-33	S-4	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-34	S-4	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-35	S-4	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-36	S-4	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-37	S-5	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-38	S-5	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-39	S-5	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-40	S-5	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-41	S-5	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-42	S-5	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-43	S-6	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55262-44	S-6	Solid	03/04/25 00:00	03/05/25 16:08	1.5'
880-55262-45	S-6	Solid	03/04/25 00:00	03/05/25 16:08	2'
880-55262-46	S-6	Solid	03/04/25 00:00	03/05/25 16:08	3'
880-55262-47	S-6	Solid	03/04/25 00:00	03/05/25 16:08	4'
880-55262-48	S-6	Solid	03/04/25 00:00	03/05/25 16:08	5'
880-55262-49	S-6	Solid	03/04/25 00:00	03/05/25 16:08	6'

Chain of Custody

Revised Date 05012020 Rev. 2020.1					-			1			
		7			1			+			שו
		A N	300	-8	0	18	NOW	6			~ \\
(Signature) Date/Time	e) Received by: (Signature)	Relinquished by: (Signature)	me	Date/Time	1	no n	ed by: (Signature)	Receiv		y: (Signature)	Relinquished by: (Signature)
								>			
	sources.com	and mcarmona@carmonaresources.com	rces.com	naresou	gcarmo	cmoenring	Please send results to cmoenring@carmonaresources.com and mcarmon	Please			
						amaahuinad		Plans			
×					_	9' Grab	×		3/4/2025	_	S-1
×					1	8' Grab	×		3/4/2025	1	S-1
			×	×	1	7' Grab	×		3/4/2025	1	S-1
			×	×	-1	6' Grab	×		3/4/2025	1	S-1
			×	×	_	5' Grab	×		3/4/2025		S-1
			×	×	_	4' Grab	×		3/4/2025		S-1
			×	×		3' Grab	×		3/4/2025	1	S-1
			×	×	_	2' Grab	×		3/4/2025		S-1
			×	×	_	1.5' Grab	×		3/4/2025		S-1
			×	×	_	0-1 Grab	×		3/4/2025	_	S-1
Sample Comments						Depth Comp	Soil	Time	Date	ntification	Sample Identification
			ТРН		# of	Grab/		!	?		,
NaOH+Ascorbic Acid: SAPC			801		l	10	Corrected Temperature:	Corrected	(Total Containers:
Zn Acetate+NaOH: Zn				В		1.1	Temperature Reading:	Temperat	No / NIA		Sample Custody Seals:
H Na ₂ S ₂ O ₃ : NaSO ₃			_	TEX	Pa	0.1	n Factor:	Correction Factor:	No MA	ls: Yes	Cooler Custody Seals:
NaHSO4: NABIS			te 30	802	aran	188	eter ID:	Thermometer ID:	s No	(Yes	Received Intact:
H₃PO₄; HP			DRC	1B	nete	(es No	Wet Ice:	(Yes No	Temp-Blank:		SAMPLE RECEIPT
H ₂ S0 ₄ : H ₂ NaOH: Na) + N		rs						PO#
HCL: HC HNO ₃ : HN			IRO						RP/KR		Sampler's Name:
Cool: Cool MeOH: Me)			Normal	Due Date:		Eddy Co, NM	Ed	Project Location
None: NO DI Water: H ₂ O					Code	Rush	✓ Routine		2412		Project Number:
Preservative Codes	EST	ANALYSIS REQUEST				Turn Around	Turn /	od #23	Benson Shugart Waterflood #23	Benson Shu	Project Name:
ADaPT Other:	Deliverables: EDD		com	ources.	monares	Email: ThielkeA@Carmonaresources.com	Email: I			432-813-8988	Phone:
II ☐PST/UST ☐rRRP ☐ Level IV ☐	Reporting:Level II Level III LPST/UST					City, State ZIP:	0		701	Midland, TX 79701	City, State ZIP:
	State of Project:					Address:	A		Ste. 500	310 West Wall Ste. 500	Address:
Brownfields □RRC □uperfund □	Program: UST/PST PRP Brownfields RRC					Company Name:	0		urces	Carmona Resources	Company Name:
Work Order Comments	Work	es	Carmona Resources	Carmo		Bill to: (if different)	П			Ashton I hielke	Project Manager:

Wo	
880-55262 Chain of Custody	

Page __1__ of

5

3		Relinquished by: (Signature)		2-2	S-2	S-1	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#:	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: 4	City, State ZIP: N	Address: 3	Company Name: C	Project Manager: A							
		(Signature)												fication		Yes	Yes	Υ.				ш		Benson Sh	432-813-8988	Midland, TX 79701	310 West Wall Ste. 500	Carmona Resources	Ashton Thielke
				3/4/2025	3/4/2025	3/4/2025	3/4/2025	3/4/2025	3/4/2025	3/4/2025	3/4/2025	3/4/2025	3/4/2025	Date		No N/A	No N/A	Yes No	Temp Blank:		RP/KR	Eddy Co, NM	2412	Benson Shugart Waterflood #23		9701	Ste. 500	ources	0
4		Receixo	Please											Time	Corrected	Temperat	Correction Factor:	Thermometer ID:	Yes No					od #23					
		Receined by: (Signature)	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	>	×	×	×	×	×	×	×	×	×	Soil	Corrected Temperature:	Temperature Reading:	n Factor:	eter ID:	Wet Ice:			Due Date:	✓ Routine	Tur	Email:				
		ture)	to cmoeh	1.5	0-1	30'	25'	20'	18'	16'	14'	12'	10'	Depth					Yes			Normal	Rush	Turn Around	: ThielkeA@Carmonaresources.com	City, State ZIP	Address:	Company Name	Bill to: (if different)
			nring@c	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab/ Comp					S o			nal			@Carmo	ZIP:		Name:	fferent)
			armona		-		_		-	_	_	-	_	# of Cont			Р	araı	nete	rs			Code		nareso				
		Date/Time	iresour	>	×											В	TEX	802	1B						urces.c				Carmona Resources
		ne	ces.cc	Ľ	+	╁						-	_	TP	H 80	_	_	RO +) + N	IRO)	_		om				a Resor
1 4	2		m and	-		-	ļ																						ırces
		Relinquished by: (Signature)	mcarr																										
		shed by	nona@																					ANALY					
		/: (Sign	carmo	╟	+	-			L													_	L	SIS RI					
	-	ature)	naresc	╟	+															_				ALYSIS REQUEST	Deli	Rep	Stat	Pro	
	+		ources.		T																			7	verables	orting:L	State of Project:	gram: L	
		Recei	COM																						Deliverables: EDD	Reporting:Level II Level III LPST/UST	oject:	JST/PS	
		Received by: (Signature)		-	-	-														_						Level			Wor
		(Signa		╟		×	×	×	×	×	×	×	×				н	OLD			_	-			AD,	=	l	g g	k Orde
		ture)			\dagger										NaO	Zn A			H ₃ P(H ₂ S(HCL	C00	Non		ADaPT 🗆	ST/UST		wnfield	Work Order Comments
H	+													Samp	H+Ascc	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ ; NaSO ₃	NaHSO ₄ : NABIS	H₃PO₄: HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Prese	 o	_ ∐RRP		Program: UST/PST ☐PRP ☐Brownfields ☐RRC	ments
		Dat												le Con	orbic Ac	NaOH:	3SO3	\BIS		ž	ェ	¥	₽	rvative	Other:			_	
		Date/Time												Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn				NaOH: Na	HNO3: HN	МеОН: Ме	DI Water: H ₂ O	Preservative Codes		Level IV L		uperfund [
																				-	_	v	H ₂ O			_]	 	

3

5

6

8

10

12 13

13

1

Chain of Custody

Revised Date 05012020 Rev. 2020.1

Chain of Custody

eters Codes.
Parameters STEX 8021B (GRO + DRO + MRO)
Parameters BTEX 8021B 8015M (GRO + DRO + MRO) Chloride 300.0
3015M (GRO + DRO + MRO)
Chloride 300.0

	₹
	0
	긎
	0
	ᇗ
	œ
	Z
	0
1	

Chain of Custody

Work Order No:

Project Manager:	Ashton Thielke				Bill to: (if different)	erent)	Ω	armona	Carmona Resources	ès						5	ork Or	der C	Work Order Comments		
Company Name:	Carmona Resources	urces			Company Name	ame:							70	rogram	: UST/I	ST 🔲	₹ □	Brown	Program: UST/PST ☐PRP ☐Brownfields ☐RRC		□uperfund □
Address:	310 West Wall Ste. 500	Ste. 500			Address:								(0	State of Project:	Project	••					1
City, State ZIP:	Midland, TX 79701	701			City, State ZIP	ZIP:							77	Reporting:Level II Level III LST/UST	g:Level	ы П	vel III	DsT/I	UST TRRP		Level IV
Phone:	432-813-8988			Email:	Email: ThielkeA@Carmonaresources.com	Carmon	aresour	ces.co	3					Deliverables: EDD	oles: EI			ADaPT 🗆	Other:	er.	
Project Name:	Benson Shu	Benson Shugart Waterflood #23	od #23	Turn	Turn Around				K		AN	ALYSIS	NALYSIS REQUEST	EST	N				Preservative Codes	vative C	odes
Project Number:		2412		Routine	Rush		Pres. Code												None: NO	DIV	DI Water: H ₂ O
Project Location	Ed	Eddy Co, NM		Due Date:	Normal													0	Cool: Cool	MeC	MeOH: Me
Sampler's Name:		RP/KR						IRO										_	HCL: HC	HNC	HNO3: HN
PO#							rs) + N											H ₂ SO ₄ : H ₂	NaC	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes 1	No	nete	1B DRC										_	н₃РО₄: НР		
Received Intact:	Yes	s No	Thermometer ID:	eter ID:			_											DLD	NaHSO ₄ : NABIS	SIB	
Cooler Custody Seals:	Yes	No N/A	Correction Factor:	Factor:				GR	lorio										Na ₂ S ₂ O ₃ ; NaSO ₃	SO ₃	
Sample Custody Seals:	Yes	No N/A	Temperatu	Temperature Reading:				-								-		N	Zn Acetate+NaOH: Zn	IaOH: Zr	,
Total Containers:	-		Corrected	Corrected Temperature:				1 801								_		-	NaOH+Ascorbic Acid: SAPC	bic Acid:	SAPC
Sample Identification	ntification	Date	Time	Soil	Depth	Grab/ Comp	# of Cont	TPI											Sample Comments	e Comn	nents
S-5	5	3/4/2025		×	4' (Grab	1	×	×												
S-5	5	3/4/2025		×	5'	Grab	1	×	×												
S-6	3	3/4/2025		×	0-1'	Grab	1	×	×												
S-6	03	3/4/2025		×	1.5'	Grab	-1	×	X												
S-6	3	3/4/2025		×	2' (Grab	_	×	×										-		
S-6	0,	3/4/2025		×	3'	Grab	_	×	×		_				_						
S-6	3	3/4/2025		×	4' (Grab	1	×	×												
S-6	3	3/4/2025		×	5' (Grab		×	×												
S-6	0,	3/4/2025		×	6,	Grab	_	×	×							-					
			Please s	Please send results to cmoehring@carmonaresources.com and mcarm	o cmoehr	ing@ca	monare	Sourc	es.com	and m	carmor	ia@car	ona@carmonaresources.com	source	es.com						
Relinquished by: (Signature)	y: (Signature)		Receive	Received by: (Signature)	(6)		Da	Date/Time	(b)	Reli	Relinquishe	d by: (S	hed by: (Signature)	9)	Re	Received by: (Signature)	by: (Si	gnatur	9	Date/	Date/Time
1				N	1					2											
3				7 6						4				_							
5				<						6											

Page

o

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-55262-1 SDG Number: Eddy Co NM

List Source: Eurofins Midland

Login Number: 55262 List Number: 1

Creator: Kramer, Jessica

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.	True	
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	

Released to Imaging: 6/27/2025 1:22:45 PM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701

Generated 3/11/2025 12:04:13 PM

JOB DESCRIPTION

Benson Shugart Waterflood #23 Eddy Co NM

JOB NUMBER

880-55265-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 3/11/2025 12:04:13 PM

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

4

6

0

9

11

1 /

Client: Carmona Resources Project/Site: Benson Shugart Waterflood #23 Laboratory Job ID: 880-55265-1

SDG: Eddy Co NM

Tal	hl	6	Of	Co	nte	nts
ıa	VI		VI.	VV		1113

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	20
Lab Chronicle	23
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	29

a
3

Definitions/Glossary

Job ID: 880-55265-1 Client: Carmona Resources Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Job ID: 880-55265-1

Case Narrative

Client: Carmona Resources

Project: Benson Shugart Waterflood #23

Job ID: 880-55265-1 Eurofins Midland

Job Narrative 880-55265-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/5/2025 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104609 and analytical batch 880-104771 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-1 (880-55265-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

3

4

b

8

11

13

114

Matrix: Solid

Client Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1 SDG: Eddy Co NM

Lab Sample ID: 880-55265-1

Client Sample ID: H-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
Ethylbenzene	0.0466		0.00199		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 11:22	03/07/25 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/06/25 11:22	03/07/25 04:21	1
1,4-Difluorobenzene (Surr)	83		70 - 130				03/06/25 11:22	03/07/25 04:21	1
- Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0466		0.00398		mg/Kg			03/07/25 04:21	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/10/25 16:10	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/10/25 17:18	03/10/25 16:10	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/10/25 17:18	03/10/25 16:10	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/10/25 17:18	03/10/25 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				03/10/25 17:18	03/10/25 16:10	1
o-Terphenyl	125		70 - 130				03/10/25 17:18	03/10/25 16:10	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	e						

Client Sample ID: H-2

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

Chloride

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 03/06/25 11:22 03/07/25 04:42 Toluene <0.00200 U 0.00200 mg/Kg 03/06/25 11:22 03/07/25 04:42 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/06/25 11:22 03/07/25 04:42 0.00399 03/06/25 11:22 03/07/25 04:42 m-Xylene & p-Xylene <0.00399 U mg/Kg o-Xylene <0.00200 U 0.00200 03/06/25 11:22 03/07/25 04:42 mg/Kg Xylenes, Total <0.00399 U 0.00399 03/06/25 11:22 03/07/25 04:42 mg/Kg Limits Prepared Surrogate %Recovery Qualifier Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 - 130 03/06/25 11:22 03/07/25 04:42 107

9.94

mg/Kg

<9.94 U

Eurofins Midland

03/10/25 16:34

Matrix: Solid

Lab Sample ID: 880-55265-2

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

Lab Sample ID: 880-55265-2

Matrix: Solid

Client Sample ID: H-2

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	03/06/25 11:22	03/07/25 04:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte		alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	mg/Kg			03/07/25 04:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC OOAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/08/25 08:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 08:17	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 08:17	1
C10-C28) Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:31	03/08/25 08:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78	70 - 130	03/06/25 09:31	03/08/25 08:17	1
o-Terphenyl	72	70 - 130	03/06/25 09:31	03/08/25 08:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	<9.90	U	9.90	 mg/Kg				03/10/25 16:40	1

Client Sample ID: H-3 Lab Sample ID: 880-55265-3 **Matrix: Solid**

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

ı	Method: SW846 8021B	Maladila Ossasia	O = === = = = = = (OO)

incurred Circle Cozin	no organio comp	Julius (SS)	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/07/25 09:02	03/07/25 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/07/25 09:02	03/07/25 19:19	1
1 4 Diffuorabanzana (Surr)	100		70 120				02/07/25 00:02	02/07/25 10:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/07/25 09:02	03/07/25 19:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/07/25 09:02	03/07/25 19:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/07/25 19:19	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		-	03/08/25 08:34	1

Client Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

Client Sample ID: H-3

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08 Sample Depth: 0-1'

Lab Sample ID: 880-55265-3

Lab Sample ID: 880-55265-4

Matrix: Solid

Matrix: Solid

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

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:34	1
<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:34	1
<49.9	U	49.9		mg/Kg		03/06/25 09:31	03/08/25 08:34	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
80		70 - 130				03/06/25 09:31	03/08/25 08:34	1
73		70 - 130				03/06/25 09:31	03/08/25 08:34	1
	<49.9 <49.9 <49.9 %Recovery 80		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Analyte RL MDL Unit D Prepared Dil Fac Analyzed Chloride <9.98 U 03/10/25 16:46 9.98 mg/Kg

Client Sample ID: H-4

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Sample Depth: 0-1'

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

Welliou. Syvo46 60216 - Volatil	le Organic Compounds	(GC)					
Analyte	Result Qualifie	r RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	0.00200	mg/Kg		03/06/25 18:00	03/09/25 12:17	1
Toluene	<0.00200 U	0.00200	mg/Kg		03/06/25 18:00	03/09/25 12:17	1
Ethylbenzene	<0.00200 U	0.00200	mg/Kg		03/06/25 18:00	03/09/25 12:17	1
m-Xylene & p-Xylene	<0.00399 U	0.00399	mg/Kg		03/06/25 18:00	03/09/25 12:17	1
o-Xylene	<0.00200 U	0.00200	mg/Kg		03/06/25 18:00	03/09/25 12:17	1
Xylenes, Total	<0.00399 U	0.00399	mg/Kg		03/06/25 18:00	03/09/25 12:17	1
	0/5						

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	120		70 - 130	03/06/25 18:0	03/09/25 12:17	1
L	1,4-Difluorobenzene (Surr)	84		70 - 130	03/06/25 18:0	0 03/09/25 12:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/25 12:17	1

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

Analyte	Result	Qualifier	RL	MDL Ur	nit D)	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg	g/Kg			03/08/25 08:49	1

1 03/08/25 08:49 1
1 03/08/25 08:49 1
1 03/08/25 08:49 1
:3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/06/25 09:31	03/08/25 08:49	1
o-Terphenyl	86		70 - 130	03/06/25 09:31	03/08/25 08:49	1

Client Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

Client Sample ID: H-4

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08 Lab Sample ID: 880-55265-4

Matrix: Solid

Sample Depth: 0-1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1 l	U	10.1		mg/Kg			03/10/25 17:04	1

Surrogate Summary

Client: Carmona Resources Job ID: 880-55265-1 Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-55192-A-201-A MS	Matrix Spike	103	104	
880-55192-A-201-B MSD	Matrix Spike Duplicate	102	100	
880-55249-A-21-E MS	Matrix Spike	106	102	
880-55249-A-21-F MSD	Matrix Spike Duplicate	99	104	
880-55262-A-1-B MS	Matrix Spike	120	94	
880-55262-A-1-C MSD	Matrix Spike Duplicate	115	95	
880-55265-1	H-1	87	83	
880-55265-2	H-2	107	91	
880-55265-3	H-3	100	100	
880-55265-4	H-4	120	84	
_CS 880-104455/1-A	Lab Control Sample	101	107	
_CS 880-104600/1-A	Lab Control Sample	98	99	
_CS 880-104609/1-A	Lab Control Sample	118	94	
_CSD 880-104455/2-A	Lab Control Sample Dup	105	103	
_CSD 880-104600/2-A	Lab Control Sample Dup	96	106	
LCSD 880-104609/2-A	Lab Control Sample Dup	120	95	
MB 880-104455/5-A	Method Blank	91	90	
MB 880-104479/5-A	Method Blank	107	93	
MB 880-104571/5-A	Method Blank	92	89	
MB 880-104600/5-A	Method Blank	99	89	
	Method Blank	112	86	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-55262-A-39-B MS	Matrix Spike	81	74	
880-55262-A-39-C MSD	Matrix Spike Duplicate	82	75	
880-55265-1	H-1	137 S1+	125	
880-55265-2	H-2	78	72	
880-55265-3	H-3	80	73	
880-55265-4	H-4	96	86	
890-7787-A-1-H MS	Matrix Spike	88	77	
890-7787-A-1-I MSD	Matrix Spike Duplicate	88	77	
LCS 880-104567/2-A	Lab Control Sample	113	100	
LCS 880-104814/2-A	Lab Control Sample	109	97	
LCSD 880-104567/3-A	Lab Control Sample Dup	112	100	
LCSD 880-104814/3-A	Lab Control Sample Dup	109	95	
MB 880-104567/1-A	Method Blank	98	88	
	Method Blank	106	95	

Eurofins Midland

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104455/5-A

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104455

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 13:02	03/07/25 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 13:02	03/07/25 11:13	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/05/25 13	3:02 03/07/25 11:13	3 1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/05/25 13	3:02 03/07/25 11:13	3 1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104455

Matrix: Solid

Lab Sample ID: LCS 880-104455/1-A

Analysis Batch: 104646

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1208		mg/Kg		121	70 - 130	
Toluene	0.100	0.1238		mg/Kg		124	70 - 130	
Ethylbenzene	0.100	0.1194		mg/Kg		119	70 - 130	
m-Xylene & p-Xylene	0.200	0.2173		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-104455/2-A

Matrix: Solid

Analysis Batch: 104646

Client San	iple ID: La	ab Contro	I Sample	Dup
-------------------	-------------	-----------	----------	-----

Prep Type: Total/NA

Prep Batch: 104455

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1205		mg/Kg		120	70 - 130	0	35	
Toluene	0.100	0.1266		mg/Kg		127	70 - 130	2	35	
Ethylbenzene	0.100	0.1236		mg/Kg		124	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2242		mg/Kg		112	70 - 130	3	35	
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130	2	35	

LCSD LCSD

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

Lab Sample ID: 880-55192-A-201-A MS

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104455

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits <0.00200 U 0.100 0.1088 70 - 130 Benzene mg/Kg 109 Toluene <0.00200 U 0.100 0.1019 mg/Kg 102 70 - 130

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

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

Lab Sample ID: 880-55192-A-201-A MS

Matrix: Solid

Analysis Batch: 104646

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104455

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00200	U	0.100	0.08615		mg/Kg		86	70 - 130	
<0.00399	U	0.200	0.1485		mg/Kg		74	70 - 130	
<0.00200	U	0.100	0.07743		mg/Kg		77	70 - 130	
	Result <0.00200	Result Qualifier	Result Qualifier Added <0.00200	Result Qualifier Added Result <0.00200	Result Qualifier Added Result Qualifier <0.00200	Result Qualifier Added Result Qualifier Unit <0.00200	Result Qualifier Added Result Qualifier Unit D <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00200

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104455

Lab Sample ID: 880-55192-A-201-B MSD **Matrix: Solid**

Analysis Batch: 104646

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.100 0.1064 2 Benzene <0.00200 U mg/Kg 106 70 - 130 35 Toluene <0.00200 U 0.100 0.1021 102 70 - 130 35 mg/Kg Ethylbenzene <0.00200 U 0.100 0.08484 mg/Kg 85 70 - 130 2 35 <0.00399 U 0.200 0.1496 75 70 - 130 35 m-Xylene & p-Xylene mg/Kg <0.00200 U 0.100 o-Xylene 0.07543 75 70 - 130 mg/Kg 3

MSD MSD

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

Lab Sample ID: MB 880-104479/5-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104479

МВ	MB
----	----

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/25 14:32	03/08/25 16:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/25 14:32	03/08/25 16:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/05/25 14:32	03/08/25 16:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/05/25 14:32	03/08/25 16:17	1

Lab Sample ID: MB 880-104571/5-A

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104571

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 09:43	03/06/25 11:40	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

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

Lab Sample ID: MB 880-104571/5-A

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104571

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:43	03/06/25 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 09:43	03/06/25 11:40	1

MR MR

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/06/25 09:43	03/06/25 11:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/06/25 09:43	03/06/25 11:40	1

Lab Sample ID: MB 880-104600/5-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 104556

Prep Type: Total/NA

Prep Batch: 104600

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:22	03/06/25 22:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 11:22	03/06/25 22:40	1

мв мв

Surrogate	%Recovery Quali	ifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	03/06/25 11:22	03/06/25 22:40	1
1,4-Difluorobenzene (Surr)	89	70 - 130	03/06/25 11:22	03/06/25 22:40	1

Lab Sample ID: LCS 880-104600/1-A

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104600

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	
Toluene	0.100	0.1086		mg/Kg		109	70 - 130	
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.1917		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130	
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Benzene 0.100 Toluene 0.100 Ethylbenzene 0.100 m-Xylene & p-Xylene 0.200	Analyte Added Result Benzene 0.100 0.1000 Toluene 0.100 0.1086 Ethylbenzene 0.100 0.1054 m-Xylene & p-Xylene 0.200 0.1917	Analyte Added Result Qualifier Benzene 0.100 0.1000 Toluene 0.100 0.1086 Ethylbenzene 0.100 0.1054 m-Xylene & p-Xylene 0.200 0.1917	Analyte Added Result Qualifier Unit Benzene 0.100 0.1000 mg/Kg Toluene 0.100 0.1086 mg/Kg Ethylbenzene 0.100 0.1054 mg/Kg m-Xylene & p-Xylene 0.200 0.1917 mg/Kg	Analyte Added Result Qualifier Unit Unit Mg/Kg D Benzene 0.100 0.1000 mg/Kg mg/Kg Toluene 0.100 0.1086 mg/Kg mg/Kg Ethylbenzene 0.100 0.1054 mg/Kg m-Xylene & p-Xylene 0.200 0.1917 mg/Kg	Analyte Added Result Qualifier Unit D %Rec Benzene 0.100 0.1000 mg/Kg 100 Toluene 0.100 0.1086 mg/Kg 109 Ethylbenzene 0.100 0.1054 mg/Kg 105 m-Xylene & p-Xylene 0.200 0.1917 mg/Kg 96	Analyte Added Result Qualifier Unit D %Rec Nec Limits Benzene 0.100 0.1000 mg/Kg 100 70 - 130 Toluene 0.100 0.1086 mg/Kg 109 70 - 130 Ethylbenzene 0.100 0.1054 mg/Kg 105 70 - 130 m-Xylene & p-Xylene 0.200 0.1917 mg/Kg 96 70 - 130

LCS LCS

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

Lab Sample ID: LCSD 880-104600/2-A

Analysis Batch: 104556

Client Sampl	e ID: Lab	Control	Sample	Dup
--------------	-----------	---------	--------	-----

Prep Type: Total/NA

Prep Batch: 104600

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1182		mg/Kg		118	70 - 130	17	35
Toluene	0.100	0.1183		mg/Kg		118	70 - 130	9	35
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2042		mg/Kg		102	70 - 130	6	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	7	35

Eurofins Midland

Matrix: Solid

Released to Imaging: 6/27/2025 1:22:45 PM

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

Prep Type: Total/NA **Prep Batch: 104600**

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-55249-A-21-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 104556

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.1043		mg/Kg		104	70 - 130	
Toluene	<0.00200	U	0.100	0.1120		mg/Kg		112	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.1081		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.00399		0.200	0.1970		mg/Kg		96	70 - 130	
o-Xvlene	0.00222		0.100	0.1029		ma/Ka		101	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 106

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

Lab Sample ID: 880-55249-A-21-F MSD

Matrix: Solid

Analysis Batch: 104556

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104600

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1125		mg/Kg		113	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.1094		mg/Kg		109	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.1027		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene	0.00399		0.200	0.1854		mg/Kg		91	70 - 130	6	35
o-Xylene	0.00222		0.100	0.09703		mg/Kg		95	70 - 130	6	35

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 99 1,4-Difluorobenzene (Surr) 104 70 - 130

Lab Sample ID: MB 880-104609/5-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104609

	МВ	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 11:49	03/09/25 04:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 11:49	03/09/25 04:14	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/06/25 11:49	03/09/25 04:14	1
1 4-Diffuorobenzene (Surr)	86		70 130	03/06/25 11:40	03/00/25 04:14	1

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104609/1-A

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104609

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07110		mg/Kg		71	70 - 130	
Toluene	0.100	0.07076		mg/Kg		71	70 - 130	
Ethylbenzene	0.100	0.07589		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	0.200	0.1486		mg/Kg		74	70 - 130	
o-Xylene	0.100	0.07596		mg/Kg		76	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1.4-Difluorobenzene (Surr)	94		70 - 130

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-104609/2-A **Matrix: Solid**

Analysis Batch: 104771

Prep Type: Total/NA

Prep Batch: 104609

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07783		mg/Kg		78	70 - 130	9	35
Toluene	0.100	0.07389		mg/Kg		74	70 - 130	4	35
Ethylbenzene	0.100	0.07172		mg/Kg		72	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1559		mg/Kg		78	70 - 130	5	35
o-Xylene	0.100	0.07902		mg/Kg		79	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-55262-A-1-B MS

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104609

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08117	-	mg/Kg		81	70 - 130	
Toluene	<0.00200	U F1	0.100	0.05858	F1	mg/Kg		59	70 - 130	
Ethylbenzene	<0.00200	U F1	0.100	0.06055	F1	mg/Kg		61	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1178	F1	mg/Kg		59	70 - 130	
o-Xylene	<0.00200	U F1	0.100	0.06794	F1	mg/Kg		68	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-55262-A-1-C MSD

Matrix: Solid

Analysis Batch: 104771

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104609

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08318		mg/Kg		83	70 - 130	2	35
Toluene	<0.00200	U F1	0.100	0.06349	F1	mg/Kg		63	70 - 130	8	35
Ethylbenzene	< 0.00200	U F1	0.100	0.06248	F1	ma/Ka		62	70 - 130	3	35

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

Prep Batch: 104567

Prep Batch: 104567

SDG: Eddy Co NM

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

Lab Sample ID: 880-55262-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 104771 **Prep Batch: 104609** Sample Sample Spike MSD MSD %Rec

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1215	F1	mg/Kg		61	70 - 130	3	35
o-Xylene	<0.00200	U F1	0.100	0.06740	F1	mg/Kg		67	70 - 130	1	35
	MSD	MSD									

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-104567/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 104784

	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		03/06/25 09:17	03/08/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/08/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 09:17	03/08/25 03:45	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/06/25 09:17	03/08/25 03:45	1
o-Terphenyl	88		70 - 130	03/06/25 09:17	03/08/25 03:45	1

Lab Sample ID: LCS 880-104567/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 104784

_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1108		mg/Kg		111	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1057		mg/Kg		106	70 - 130	

C10-C28)

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	113	70 _ 130
o-Terphenyl	100	70 - 130

LCS LCS

Lab Sample ID: LCSD 880-104567/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA

Analysis Batch: 104784							Prep Batch: 104567			
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	994.2		mg/Kg		99	70 - 130	11	20	
Diesel Range Organics (Over	1000	1050		mg/Kg		105	70 - 130	1	20	

C10-C28)

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

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

Lab Sample ID: LCSD 880-104567/3-A

Matrix: Solid

Analysis Batch: 104784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104567

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 112 70 - 130 o-Terphenyl 100 70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104567

Lab Sample ID: 880-55262-A-39-B MS

Lab Sample ID: 880-55262-A-39-C MSD

Matrix: Solid

Analysis Batch: 104784

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	785.6		mg/Kg		79	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	999	827.8		mg/Kg		83	70 - 130	

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 81 70 - 130 1-Chlorooctane 74 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104567

Sample Sample MSD MSD Spike Added Result Qualifier Analyte Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.9 U 999 852.4 mg/Kg 85 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 854.5 mg/Kg 86 70 - 130 3 20

C10-C28)

Matrix: Solid

Analysis Batch: 104784

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 82 o-Terphenyl 75 70 - 130

Lab Sample ID: MB 880-104814/1-A Client Sample ID: Method Blank

Matrix: Solid Analysis Batch: 104861						Prep Type: Prep Batch	
Alialysis batch. 104001						Prep Batti	1. 104614
	MB MB						
Analyte	Posult Qualifier	DI	MDI Unit	n	Dronarod	hatvzad	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/25 20:40	03/10/25 09:39	1
	MD	МВ							
	IVID	IVID							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 106 70 - 130 03/09/25 20:40 03/10/25 09:39 o-Terphenyl 95 70 - 130 03/09/25 20:40 03/10/25 09:39

Eurofins Midland

QC Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-104814/2-A

Lab Sample ID: LCSD 880-104814/3-A

Matrix: Solid Analysis Batch: 104861 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA

Prep Batch: 104814

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1015		mg/Kg		102	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	964.7		mg/Kg		96	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	97		70 - 130

Client Sample ID: Lab Control Sample Dup

95

Prep Type: Total/NA

70 - 130

Prep Batch: 104814

Analysis Batch: 104861 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 1000 1010 101 70 - 130 Gasoline Range Organics mg/Kg 1 (GRO)-C6-C10

951.8

mg/Kg

1000

C10-C28)

Matrix: Solid

LCSD LCSD %Recovery Qualifier Surrogate

Limits 1-Chlorooctane 109 70 - 130 o-Terphenyl 95 70 - 130

Lab Sample ID: 890-7787-A-1-H MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 104861

Diesel Range Organics (Over

Prep Type: Total/NA **Prep Batch: 104814**

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	833.6		mg/Kg		84	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	772.6		mg/Kg		78	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 88 70 - 130 77 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 104814

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	996	806.3		mg/Kg		81	70 - 130	3	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	996	773.4		mg/Kg		78	70 - 130	0	20	
C10-C28)												

Matrix: Solid

Analysis Batch: 104861

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130

Eurofins Midland

20

Lab Sample ID: 890-7787-A-1-I MSD

QC Sample Results

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

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

Lab Sample ID: 890-7787-A-1-I MSD **Matrix: Solid**

Analysis Batch: 104861

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA **Prep Batch: 104814**

MSD MSD

Surrogate %Recovery Qualifier o-Terphenyl

Limits 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104632/1-A

Matrix: Solid

Analysis Batch: 104844

Client Sample ID: Method Blank **Prep Type: Soluble**

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride <10.0 10.0 03/10/25 15:51 U mg/Kg

Lab Sample ID: LCS 880-104632/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104844

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

Lab Sample ID: LCSD 880-104632/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 104844

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 266.6 90 - 110 20 mg/Kg 107

Lab Sample ID: 880-55262-A-48-D MS

Matrix: Solid

Analysis Batch: 104844

Spike MS MS %Rec Sample Sample Analyte Qualifier Added Qualifier Unit %Rec Result Result Limits Chloride 532 250 802.6 108 90 - 110 mg/Kg

Lab Sample ID: 880-55262-A-48-E MSD

Matrix: Solid

Analysis Batch: 104844

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier RPD Limit Analyte Result Unit %Rec Limits Chloride 250 109 532 804.7 90 - 110 20 mg/Kg

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1 SDG: Eddy Co NM

__

GC VOA

Prep Batch: 104455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-3	H-3	Total/NA	Solid	5035	
MB 880-104455/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104455/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104455/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55192-A-201-A MS	Matrix Spike	Total/NA	Solid	5035	
880-55192-A-201-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 104479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104479/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 104556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	8021B	104600
880-55265-2	H-2	Total/NA	Solid	8021B	104600
MB 880-104571/5-A	Method Blank	Total/NA	Solid	8021B	104571
MB 880-104600/5-A	Method Blank	Total/NA	Solid	8021B	104600
LCS 880-104600/1-A	Lab Control Sample	Total/NA	Solid	8021B	104600
LCSD 880-104600/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104600
880-55249-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	104600
880-55249-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104600

Prep Batch: 104571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104571/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 104600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	5035	
880-55265-2	H-2	Total/NA	Solid	5035	
MB 880-104600/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104600/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104600/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55249-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
880-55249-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 104609

Lab Sample ID 880-55265-4	Client Sample ID H-4	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-104609/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104609/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104609/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55262-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-55262-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 104646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-3	H-3	Total/NA	Solid	8021B	104455
MB 880-104455/5-A	Method Blank	Total/NA	Solid	8021B	104455
LCS 880-104455/1-A	Lab Control Sample	Total/NA	Solid	8021B	104455
LCSD 880-104455/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104455

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1 SDG: Eddy Co NM

ldy Co NM

GC VOA (Continued)

Analysis Batch: 104646 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55192-A-201-A MS	Matrix Spike	Total/NA	Solid	8021B	104455
880-55192-A-201-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104455

Analysis Batch: 104734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	Total BTEX	
880-55265-2	H-2	Total/NA	Solid	Total BTEX	
880-55265-3	H-3	Total/NA	Solid	Total BTEX	
880-55265-4	H-4	Total/NA	Solid	Total BTEX	

Analysis Batch: 104771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-4	H-4	Total/NA	Solid	8021B	104609
MB 880-104479/5-A	Method Blank	Total/NA	Solid	8021B	104479
MB 880-104609/5-A	Method Blank	Total/NA	Solid	8021B	104609
LCS 880-104609/1-A	Lab Control Sample	Total/NA	Solid	8021B	104609
LCSD 880-104609/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104609
880-55262-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	104609
880-55262-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104609

GC Semi VOA

Prep Batch: 104567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-2	H-2	Total/NA	Solid	8015NM Prep	
880-55265-3	H-3	Total/NA	Solid	8015NM Prep	
880-55265-4	H-4	Total/NA	Solid	8015NM Prep	
MB 880-104567/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104567/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55262-A-39-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-55262-A-39-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-2	H-2	Total/NA	Solid	8015B NM	104567
880-55265-3	H-3	Total/NA	Solid	8015B NM	104567
880-55265-4	H-4	Total/NA	Solid	8015B NM	104567
MB 880-104567/1-A	Method Blank	Total/NA	Solid	8015B NM	104567
LCS 880-104567/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104567
LCSD 880-104567/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104567
880-55262-A-39-B MS	Matrix Spike	Total/NA	Solid	8015B NM	104567
880-55262-A-39-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104567

Prep Batch: 104814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	8015NM Prep	
MB 880-104814/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104814/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7787-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Eurofins Midland

Released to Imaging: 6/27/2025 1:22:45 PM

_

5

6

8

10

12

13

14

QC Association Summary

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1 SDG: Eddy Co NM

.

GC Semi VOA (Continued)

Prep Batch: 104814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7787-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	8015B NM	104814
MB 880-104814/1-A	Method Blank	Total/NA	Solid	8015B NM	104814
LCS 880-104814/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104814
LCSD 880-104814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104814
890-7787-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	104814
890-7787-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104814

Analysis Batch: 104890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Total/NA	Solid	8015 NM	
880-55265-2	H-2	Total/NA	Solid	8015 NM	
880-55265-3	H-3	Total/NA	Solid	8015 NM	
880-55265-4	H-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 104632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Soluble	Solid	DI Leach	
880-55265-2	H-2	Soluble	Solid	DI Leach	
880-55265-3	H-3	Soluble	Solid	DI Leach	
880-55265-4	H-4	Soluble	Solid	DI Leach	
MB 880-104632/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104632/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104632/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55262-A-48-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-55262-A-48-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 104844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55265-1	H-1	Soluble	Solid	300.0	104632
880-55265-2	H-2	Soluble	Solid	300.0	104632
880-55265-3	H-3	Soluble	Solid	300.0	104632
880-55265-4	H-4	Soluble	Solid	300.0	104632
MB 880-104632/1-A	Method Blank	Soluble	Solid	300.0	104632
LCS 880-104632/2-A	Lab Control Sample	Soluble	Solid	300.0	104632
LCSD 880-104632/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104632
880-55262-A-48-D MS	Matrix Spike	Soluble	Solid	300.0	104632
880-55262-A-48-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	104632

Eurofins Midland

2

3

4

6

R

9

4 4

12

14

Job ID: 880-55265-1

SDG: Eddy Co NM

Client Sample ID: H-1

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Lab Sample ID: 880-55265-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104600	03/06/25 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104556	03/07/25 04:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104734	03/07/25 04:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104890	03/10/25 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104861	03/10/25 16:10	TKC	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	104814	03/10/25 17:18	EL	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104632	03/06/25 13:03	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:34	CH	EET MID

Client Sample ID: H-2 Lab Sample ID: 880-55265-2

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 104600 03/06/25 11:22 MNR EET MID Total/NA 8021B 5 mL 104556 03/07/25 04:42 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 104734 03/07/25 04:42 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 104890 03/08/25 08:17 **EET MID** Total/NA 104567 EL Prep 8015NM Prep 10.01 g 10 mL 03/06/25 09:31 EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 104784 03/08/25 08:17 TKC **EET MID** Soluble 104632 03/06/25 13:03 СН Leach DI Leach 5.05 g 50 mL EET MID Soluble Analysis 300.0 50 mL 50 mL 104844 03/10/25 16:40 СН **EET MID**

Client Sample ID: H-3

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

Lab Sample ID: 880-55265-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104455	03/07/25 09:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104646	03/07/25 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104734	03/07/25 19:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104890	03/08/25 08:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 08:34	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 16:46	CH	EET MID

Client Sample ID: H-4

Date Collected: 03/04/25 00:00

Date Received: 03/05/25 16:08

Lab Sample ID: 880-55265-4 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104609	03/06/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104771	03/09/25 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104734	03/09/25 12:17	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

Lab Sample ID: 880-55265-4

Matrix: Solid

Client Sample ID: H-4

Date Collected: 03/04/25 00:00 Date Received: 03/05/25 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104890	03/08/25 08:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104567	03/06/25 09:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104784	03/08/25 08:49	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104632	03/06/25 13:03	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104844	03/10/25 17:04	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-55265-1 Project/Site: Benson Shugart Waterflood #23 SDG: Eddy Co NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
	are included in this report, but ses not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

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

Protocol References: ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources

Project/Site: Benson Shugart Waterflood #23

Job ID: 880-55265-1

SDG: Eddy Co NM

ODO.	Luuy	OO I VIVI

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-55265-1	H-1	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55265-2	H-2	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55265-3	H-3	Solid	03/04/25 00:00	03/05/25 16:08	0-1'
880-55265-4	H-4	Solid	03/04/25 00:00	03/05/25 16:08	0-1'

		6 4 2	Q	EX	S			AMOS.		1		5 3
Received by: (Signature) Date/Time	Relinquished by: (Signature)	Relinquished		Date/Time	Dat		<u>>ē</u>	Received by: (Signature)	Received	ĺ	r: (Signature)	Relinquished by: (Signature)
s.com	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	and mcarmona	s.com	source	rmonare	ring@ca	to cmoeh	end results	Please s			
					_							
				1	_	_						
			×	×	1 3	Grab	0-1'	×		3/4/2025		H ₄
			×	X	1 3	Grab	0-1'	×		3/4/2025	3	H-3
			×	×	1	Grab	0-1'	×		3/4/2025	.0	Н-2
			×	×	1	Grab	0-1'	×		3/4/2025		H-1
Sample Comments				TP	# of Cont	Grab/ Comp	Depth	Soil	Time	Date	ntification	Sample Identification
NaOH+Ascorbic Acid: SAPC				H 801		P	-	Corrected Temperature:	Corrected			Total Containers:
Zn Acetate+NaOH: Zn			CH				-	Temperature Reading:	Temperatu	No (N/A	ils: Yes	Sample Custody Seals:
H Na ₂ S ₂ O ₃ : NaSO ₃			nlori	(GF				Factor:	Correction Factor:	NA ON	Yes	Cooler Custody Seals:
D NaHSO₄: NABIS			de 30			90	H	ter ID:		res pro	*	Received Intact:
H₃PO₄; HP			0.0		nete	No	Yes) Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
~) + M	rs				,			PO#:
				IRO)						RP/KR		Sampler's Name:
							Normal	Due Date:		Eddy Co, NM	Ec	Project Location
None: NO DI Water: H ₂ O					Pres. Code		Rush	✓ Routine		2412		Project Number:
Preservative Codes	ANALYSIS REQUEST	ANA					Turn Around	Turn	od #23	Benson Shugart Waterflood #23	Benson Shu	Project Name:
es: EDD ADaPT Other:	Deliverables: EDD			es.com	naresourc	Carmor	ThielkeA@Carmonaresources.com	Email:			432-813-8988	Phone:
Reporting:Level III	Reporting:					ZIP:	City, State ZIP:			9701	Midland, TX 79701	City, State ZIP:
roject:	State of Project:						Address:			Ste. 500	310 West Wall Ste.	Address:
Program: UST/PST ☐PRP ☐Brownfields ☐RRC ☐uperfund ☐	Program:					Name:	Company Name:			ources	Carmona Resources	Company Name:
Work Order Comments		Š	Resource	Carmona Resources	င္မ	ferent)	Bill to: (if different)				Ashton Thielke	Project Manager:
880-55265 Chain of Custody												
		ody	usto	of C	Chain of Custody	0						

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-55265-1 SDG Number: Eddy Co NM

List Source: Eurofins Midland

Login Number: 55265 List Number: 1

Creator: Kramer, Jessica

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	
s 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.	True	
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	

4

3

4

6

8

10

15

13

14



March 28, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BENSON SHUGART UNIT #23

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



03/27/2025

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date:

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact
Project Number: 2412 Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: CS - 1 (5.5') (H251828-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	1.96	97.8	2.00	6.92	QM-07
Toluene*	<0.050	0.050	03/27/2025	ND	2.01	101	2.00	6.48	QM-07
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	6.59	QM-07
Total Xylenes*	< 0.150	0.150	03/27/2025	ND	5.88	97.9	6.00	5.24	QM-07
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	104 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105 9	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



03/27/2025

Alyssa Parras

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported:

03/28/2025 Sampling Type: Soil BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Number: 2412

Project Name:

Project Location: EDDY CO NM

Sample ID: CS - 2 (5.5') (H251828-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/27/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	120 %	6 44.4-14	5						
Surrogate: 1-Chlorooctadecane	118 9	6 40 6-15	3						

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025 Sampling Date: 03/27/2025 Sampling Type:

Project Name:

BENSON SHUGART UNIT #23

Soil

Project Number: 2412 Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: CS - 3 (5.5') (H251828-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/27/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	108 9	% 44.4-14	5						
Cumpage 1 Chlouse stades and	1140	0/ 40.6.15	•						

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact Project Number: 2412 Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: CS - 4 (5.5') (H251828-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.8	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025

Sampling Date: 03/27/2025

Reported: 03/28/2025
Project Name: BENSON SHUGART UNIT #23

Sampling Type: Soil
Sampling Condition: Cool & Intact

Project Number: 2412

Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: CS - 5 (5.5') (H251828-05)

BTEX 8021B

DILX OUZID	11197	ng .	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	< 0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	< 0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	100 5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.8	% 40.6-15	3						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025

Project Name: BENSON SHUGART UNIT #23

Project Number: 2412

Project Location: EDDY CO NM Sampling Date: 03/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS - 6 (5.5') (H251828-06)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	119 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	118 9	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Cool & Intact

Alyssa Parras

Sampling Condition:

Sample Received By:

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23
Project Number: 2412

Project Location: EDDY CO NM

Sample ID: CS - 7 (5.5') (H251828-07)

RTFY 8021R

B1EX 8021B	тд/кд		Anaiyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	

Applyzod By: 14

Surrogate: 1-Chlorooctane 96.2 % 44.4-145 Surrogate: 1-Chlorooctadecane 93.4 % 40.6-153

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025

Project Name: BENSON SHUGART UNIT #23

Project Number: 2412

Project Location: EDDY CO NM Sampling Date: 03/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: CS - 8 (5.5') (H251828-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	108 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	105 9	40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025

BENSON SHUGART UNIT #23

Project Number: 2412

Project Name:

RTFY 8021R

Project Location: EDDY CO NM

Sampling Date: 03/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: CS - 9 (5.5') (H251828-09)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	115	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	113	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported:

03/28/2025 BENSON SHUGART UNIT #23

Project Number: 2412

Project Name:

Project Location: EDDY CO NM Sampling Date: 03/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS - 10 (5.5') (H251828-10)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	71.9	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	118	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	112	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	110	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025 Sampling Date: 03/27/2025

Project Name:

Sampling Type: Soil

BENSON SHUGART UNIT #23 Project Number: 2412

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: CS - 11 (5.5') (H251828-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	76.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	73.7	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported:

03/28/2025 BENSON SHUGART UNIT #23

Project Number: 2412

Project Name:

Project Location: EDDY CO NM Sampling Date: 03/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS - 12 (5.5') (H251828-12)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	78.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.8	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025 Sampling Date: 03/27/2025 Sampling Type:

Project Name:

BTEX 8021B

BENSON SHUGART UNIT #23

mg/kg

Soil

Project Number:

Sampling Condition: Sample Received By: Cool & Intact Alyssa Parras

2412 Project Location: EDDY CO NM

Sample ID: CS - 13 (5.5') (H251828-13)

DILX GOZID	ıııg,	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	98.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	94.4	% 40.6-15	3						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025

BENSON SHUGART UNIT #23

Project Number: 2412

Project Name:

Project Location: EDDY CO NM

Sampling Date: 03/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS - 14 (4.5') (H251828-14)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	98.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	96.4	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact Sample Received By: Project Number: 2412 Alyssa Parras

Project Location: EDDY CO NM

Sample ID: CS - 15 (4.5') (H251828-15)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	< 0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	101 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	107 9	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact
Project Number: 2412 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: EDDY CO NM

Sample ID: CS - 16 (4.5') (H251828-16)

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	95.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.7	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact
Project Number: 2412 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: EDDY CO NM

Sample ID: CS - 17 (4.5') (H251828-17)

RTFY 8021R

1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	98.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	97.5	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Cool & Intact

Alyssa Parras

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition:
Project Number: 2412 Sample Received By:

Project Location: EDDY CO NM

Sample ID: CS - 18 (4.5') (H251828-18)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	94.2	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	91.1	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact Project Number: 2412 Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: CS - 19 (4.5') (H251828-19)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.5	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025

BENSON SHUGART UNIT #23

Project Name: Project Number: 2412

Project Location: EDDY CO NM Sampling Date: 03/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: CS - 20 (4.5') (H251828-20)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.96	97.8	2.00	6.92	
Toluene*	<0.050	0.050	03/28/2025	ND	2.01	101	2.00	6.48	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.97	98.6	2.00	6.59	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.88	97.9	6.00	5.24	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	80.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	75.6	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Cool & Intact

Alyssa Parras

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition:
Project Number: 2412 Sample Received By:

Project Location: EDDY CO NM

Sample ID: CS - 21 (4.5') (H251828-21)

RTFY 8021R

1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	77.1	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	74.4	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025 Sampling Date: 03/27/2025

Project Name: BENSON SHUGART UNIT #23 Sampling Type: Soil

Project Number: 2412 Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: SW - 1 (5.5') (H251828-22)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	59.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	56.0	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025 Sampling Date: 03/27/2025 Sampling Type:

Project Name:

BENSON SHUGART UNIT #23

Soil

Project Number:

2412

Sampling Condition: Cool & Intact Sample Received By:

Project Location: EDDY CO NM Alyssa Parras

Sample ID: SW - 2 (5.5') (H251828-23)

TEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	< 0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	< 0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	67.7 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64 6 9	% 40 6-15	3						

Surrogate: 1-Chlorooctadecane 64.6 % 40.6-153

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



03/27/2025

Cool & Intact

Alyssa Parras

Soil

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported:

03/28/2025 Sampling Type: Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: BENSON SHUGART UNIT #23 Project Number: 2412

Project Location: EDDY CO NM

Sample ID: SW - 3 (5.5') (H251828-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400 16.0		03/28/2025 ND		432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	50.4	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	51.2	% 40.6-15.	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact
Project Number: 2412 Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: SW - 4 (5.5') (H251828-25)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416 16.0		03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	59.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	56.2	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025 Sampling Date: 03/27/2025

Project Name: BENSON SHUGART UNIT #23

Sampling Type: Soil
Sampling Condition: Cool & Intact

Project Number: 2412

Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: SW - 5 (5.5') (H251828-26)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288 16.0		03/28/2025 ND		432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	89.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.5	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date: 03/27/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact Sample Received By: Project Number: 2412 Alyssa Parras

Project Location: EDDY CO NM

Sample ID: SW - 6 (5.5') (H251828-27)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	69.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	64.9	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025 Sampling Date: 03/27/2025 Sampling Type: Soil

Project Name:

RTFY 8021R

BENSON SHUGART UNIT #23

Sampling Condition: Cool & Intact

Project Number:

2412

Project Location: EDDY CO NM

Sample Received By: Alyssa Parras

Sample ID: SW - 7 (5.5') (H251828-28)

B1EX 8021B	mg/	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528 16.0		03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	93.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.7	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune



03/27/2025

Cool & Intact

Alyssa Parras

Soil

Sampling Date:

Sample Received By:

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025

Reported: 03/28/2025 Sampling Type:
Project Name: BENSON SHUGART UNIT #23 Sampling Condition:

Project Number: 2412

Project Location: EDDY CO NM

Sample ID: SW - 8 (5.5') (H251828-29)

RTFY 8021R

B1EX 8021B	mg,	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576 16.0		03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	97.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.9	% 40.6-15.	3						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Sampling Condition:

Sample Received By:

03/27/2025

Cool & Intact

Alyssa Parras

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date:

BENSON SHUGART UNIT #23

Reported: 03/28/2025 Sampling Type: Soil

Project Name: BENSON S
Project Number: 2412

Project Location: EDDY CO NM

Sample ID: SW - 9 (4.5') (H251828-30)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	16.0 03/28/2025		432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	82.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.8	% 40.6-15	3						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025 Sampling Date: 03/27/2025

Project Name:

BENSON SHUGART UNIT #23

Sampling Type: Soil

Project Number: 2412 Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: EDDY CO NM

Sample ID: SW - 10 (4.5') (H251828-31)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	53.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	52.0	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Sample Received By:

03/27/2025

Alyssa Parras

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Sampling Date:

Reported: 03/28/2025 Sampling Type: Soil
Project Name: BENSON SHUGART UNIT #23 Sampling Condition: Cool & Intact

Project Number: 2412

Project Location: EDDY CO NM

Sample ID: SW - 11 (4.5') (H251828-32)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	< 0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112 16.0		03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	60.1	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	60.6	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 03/28/2025

BENSON SHUGART UNIT #23

Project Number: 2412

Project Name:

RTFY 8021R

Project Location: EDDY CO NM

Sampling Date: 03/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW - 12 (4.5') (H251828-33)

B1EX 8021B	mg,	rkg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	2.04	102	2.00	2.78	
Toluene*	<0.050	0.050	03/28/2025	ND	2.10	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	2.35	118	2.00	2.45	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	7.18	120	6.00	2.04	
Total BTEX	<0.300	0.300	03/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112 16.0		03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	204	102	200	0.632	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	70.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	68.1	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

5	3 Many Le	Relinquished by: (Signature)		(S-10 (5.5)	Q CS-9 (5.5')	8 CS-8 (5.5')	CS-7 (5.5')	CS-6 (5.5')	S CS-5 (5.5')	GS-4 (5.5')	S CS-3 (5.5')	O CS-2 (5.5')	CS-1 (5.5')	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: 4	City, State ZIP: N	Address: 3	Company Name: C	Project Manager: A			
	The state of the s	signature)))	')	')	ن	3	3	()	ication		Yes		Yes				Ed		Benson	432-813-8988	Midland, TX 79701	310 West Wall Ste.	Carmona Resources	Ashton Thielke			
	app			3/27/2025	3/27/2025	3/27/2025	3/27/2025	3/27/2025	3/27/2025	3/27/2025	3/27/2025	3/27/2025	3/27/2025	Date		NO N/A		S No	Temp Blank:		KR.	Eddy Co, NM	2412	Benson Shugart Unit #23		701	Ste. 500	ources				
		Received	Please s											Time	Corrected	Temperat	Correction Factor:	Thermometer ID:	Yes No					#23								
	O	Received by: (Signature)	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	×	×	×	×	×	×	×	×	×	×	Soil	Corrected Temperature:	Temperature Reading:	Factor:	eter ID:	Wet Ice:	lab, if rece	TAT starts the day received by the	Due Date:	Routine	Turr	Email:							
	24	re)	o cmoehr	0	0	0	0	0	0	0)	0	0	Water	5.00	イント	-	450	Yes	lab, if received by 4:30pm	day received	24 Hour Rush	√ Rush	Turn Around	ThielkeA@Carmonaresources.com	City, State ZIP	Address:	Company Name	Bill to: (if different)			
	(1)		ing@ca	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Grab/ Comp			1,		8	Ĭ,	by the	Rush			@Carmo	ZIP:		Name:	fferent)			C
Sp. 20.0.02	25.5	Da	rmonar		_	_	_	_	_	_	_	_	_	# of Cont			Pi	araņ	neter	s			Pres. Code		naresou							10
Se	-	Date/Time	esour	×	×	×	×	+	×	×	×	×	×			_	TEX	_							rces.c				Carmor			0
	163	TO .	ces.com	×	×	×	+	+	×	×	×	×	×	TPI	1 801		(GR	-	DRO 500	+ MI	RO)	+	_		mox				Carmona Resources			Chain of Custody
o	4 2	Reli	and m																										rces			COCI
		Relinquished by: (Signature)	carmor			+	-	-	+	-		-	_					- 1				-		A								
		d by: (S	na@car			+	+	+	+	+	+	+	+					-				+	-	NALYSIS REQUEST								
		ignatur	monare																					S REQ						,		
+		e)	esourc			-	+	+	_	_	_	-	_					-						UEST	Delivera	Reportin	State of Project:	Program: UST/PST				
		Rec	es.com		-	+	+	+	+	+	+		+					1				+	\dashv		Deliverables: EDD	ng:Level	f Projec	m: UST/				
		Received by: (Signature)			1	1	\dagger	+	+	+	+	+	+									+	-		00	Reporting:Level II Level III		-	<	7 -	Work	
		y: (Sig																										PRP	/ork O		Orde	
		nature)			4	+	+		4	4	_	4			Z	Z	НО	-	I :	T 0	E C		2		ADaPT 🗆	□PST/UST		Brownfields	rder Co		No:	
_														Samı	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	H-SO. H-	HCI - HC		None: NO	Pres			1	ields	Work Order Comments	Page	Work Order No: 月母ろほうる	
		Dat												ple Co	corbic A	+NaOH	VaSO ₃	ABIS						ervativ	Other:	RRP [RRC	S	е 1	318	
		Date/Time												Sample Comments	cid: SAP	Zn		i	id Ci.	NaOH: Na	MEOH: ME	Di vidici. 1120	JI Water	Preservative Codes		Leve	[uperfund		l 오 	25	
														U)	C				ā	0 2	le	1120	L D	ñ		Level IV	Г	Ind		Page	26 of (

				o									×
				4			-						5
				2	15	aras	33			Se	WDW		3 - May
) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Relinquishe		Date/Time	Date		e)	Received by: (Signature)	Received		Signature)	Relinquisned by: (Signature)
	urces.com	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	nd mcarmor	.com a	ources	nonares	ng@carn	o cmoehri	end results t	Please se			
				×	×	×	Comp		>		CZUZIIZIC		
				>	+	` -	Τ		< ;		3/37/3036	5")	CS-20 (4 5")
				< >	+	+	T	0 0	×		3/27/2025	(4.5')	10 CS-19 (4
		+	+	× ;	+	+	\top	0	×		3/27/2025	.5')) (CS-18 (4.5')
			+	×	+	+		0	×		3/27/2025	.5')	(1) CS-17 (4.5')
			+	×	+	1 ×		C	×		3/27/2025	.5')	(4.5')
			+	×	×	1 ×	Comp	C	×		3/27/2025	(4.5')	S CS-15 (4
				×	+	1 ×	Comp	0	×		3/27/2025	.5')	CS-14 (4.5')
				×	×	1 ×	Comp	0	×		3/27/2025	.5')	/3 CS-13 (5.5')
		-		×	×	1 ×	Comp	0	×		3/27/2025	.5')	(S-12 (5.5')
				×	×	1 ×	Comp	0	×		3/27/2025	(5.5')	CS-11 (5
Sample Comments					ТРН	# of Cont	Grab/ #	Water	Soil	Time	Date	fication	Sample Identification
NaOH+Ascorbic Acid: SAPC	7				801			5.0	Corrected Temperature:	Corrected			Total Containers:
Zn Acetate+NaOH: Zn	2	_		Ch	_	В		いてか	Temperature Reading:	Temperatu	NO N/A	Yes	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃	НО			lorio	_	TEX		(+0.3°)	Factor:	Correction Factor:		Yes	Cooler Custody Seals:
NaHSO. NABIS				de 4				生	ter ID:	Thermometer ID:	s No	Ϋ́e	Received Intact:
U				500	DRO	nete	(a)	Yes (Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
					+ M	rs		ived by 4:30pr	lab, if rece	289005	A		PO#.
HCL: HC HNO: HN					IRO)		by the	day received	TAT starts the day received by the		KR	7	Sampler's Name:
								24 Hour Rush	Due Date:		Eddy Co, NM	Edu	Project Location
None: NO DI Water H ₂ O						Pres. Code	0.7	✓ Rush	Routine		2412		Project Number:
Preservative Codes	H	ANALYSIS REQUEST	A					Turn Around	Turn	#23	Benson Shugart Unit #23	Benson (Project Name:
Other:	Deliverables: EDD ADaPT	Del			æs.com	aresourc	Carmon	ThielkeA@Carmonaresources.com	Email:			432-813-8988	Phone:
UST GRRP G Level IV	Reporting:Level III Level III PST/UST	Rep					ZIP:	City, State ZIP			701	Midland, TX 79701	ate ZIP:
		Sta		18				Address:			Ste. 500	310 West Wall Ste.	
ifields RRC uperfund	Program: UST/PST ☐PRP ☐Brownfields	Pro					Vame:	Company Name			ources	Carmona Resources	y Name:
omments	Work Order Comments		Š	esource	Carmona Resources	Cc	erent)	Bill to: (if different)				Valifort Tillalve	
Page _2_ of _4_												Ashton Thiolko	Project Manager
Page 3					,								
H251828	Work Order No:					•							
39			ody	usto	of C	Chain of Custody	0						

Ashton Thielite Cammona Resources Cammon	ure) Date∕Time	Received by: (Signature)	gnature)	Relinquished by: (Signature)	Relinqu	27	Date/Time	2-27-0 27-0		nature)	Received by: (Signature)	Receive	apa	(Signature)	Reinquished by:	5 3 1
Salto Thicking Salto S																
Salt to IT Thickle Salt to Sal		urces.com	nonareso	rmona@carn	and mca	es.com	esourc	armonar	hring@ca	Its to cmoe	send resu	Please				
Salton Thickle Salto Individual Salton Individual Indivi								1	Comp		×		3/27/2025	.5')	SW-9 (4	8
Saltion Thickle Saltion American Balton American Company Name: C								_	Comp		×		3/27/2025	.5')	SW-8	18
Salt on Thicke Salt on Sal			+		-	+	_	_	Comp		×		3/27/2025	.5')	SW-7	2
Salton Thielke Salto Maheren						+	+	_	Comp		×		3/27/2025	.5')		Y
Salt of Project: Salt of Pro			-		+	+		_	Comp		×		3/27/2025	.5')	SW-5 (5	2
Sample S					1	+	+	_	Comp		×		3/27/2025	.5')	SW-4 (5	2
Shifton Thielke Shifton Resources Shifto	ž.				1	+		_	Comp		×	× .	3/27/2025	.5')		8
Samona Resources								_	Comp		×		3/27/2025	.5')		0
Samona Resources Bill to: (in different) Carmona Resources				30. C		\dashv		1	Comp		×		3/27/2025	.5')		(2)
Sahton Thielke Saht							_	1	Comp		×		3/27/2025	1.5')	CS-21	2
Sahton Thielike	Sample Comments				÷	IPI	TDL	# of Cont		Water	Soil	Time	Date	ification		2
Sahton Thielke Bill to: (If different) Carmona Resources C	NaOH+Ascorbic Acid					1 001	1 904		0.0	ure: 5	1 Temperat	Corrected			I Containers:	Tota
Sation Thicks Bill to: (if different) Carmona Resources Ca	Zn Acetate+NaOH: Z						_		7.0		ture Readir	Tempera		Yes	ple Custody Seal	Sam
Ashton Thielke	Na ₂ S ₂ O ₃ : NaSO ₃	НОІ	1			_	_	Pa	3.5	F	n Factor:	Correctio		Yes	ler Custody Seals	Coo
Cd Manager: Ashton Thiclike Bill to: (fl different) Carmona Resources Work Order Comments Sate ZIP: Midland, TX 79701 City, State ZIP: Midland, TX 79701 City, State ZIP: Fmail: ThiclikeA@Carmonaresources.com Program: UST/PST PRP Brownfields RRC State of Project: State of Project: Program: UST/PST PRP Brownfields RRC State of Project: State of Project: Program: UST/PST PRP Brownfields RRC State of Project: Program: UST/PST PRP Brownfields RRC State of Project: State of Project: Program: UST/PST PRP Brownfields RRC State of Project: State of Project: PRP PRP Brownfields RRC State of Project: Program: UST/PST PRP Brownfields RRC State of Project: PRP PRP PST/UST PRP PST/UST PRP PST/UST PRP	NaHSO. NARIS	_D	1	1	d.			ıran		#	neter ID:	Thermon	•		eived Intact:	Rec
cd Manager: Ashton Thielke Bill to: (if different) Carmona Resources Carmona Resources Work Order Comments pany Name: Carmona Resources Company Name: Carmona Resources Program: UST/PST PRP Brownfields RRC sss: 310 West Wall Ste. 500 Address: City, State ZIP: Midland, TX 79701 City, State ZIP: State ZIP: Midland, TX 79701 Reporting: Level III Level III PST/UST TRRP Program: UST/PST PRP Brownfields RRC State of Project: State of Project: Program: UST/PST PRP Brownfields RRC TRRP Other: Nal YSIS REQUEST Nal YSIS REQUEST Preservati None: NO Preservati None: NO Cool: Cool: HCL: HCL: HCL: HCL: HCL: HCL: HCL: HCL	U				-			eter				I_ I	p Blank:		MPLE RECEIP	SA
Ashton Thielke			9			+ MI		s	30pm	f received by 4	lab, i				#	PO
Ashton Thielke	<u> </u>					RO)	201		ved by the	the da	TAT start				npler's Name:	San
Manager: Ashton Thielke Bill to: (if different) Carmona Resources Carmona Resources Work Order Comments Inte ZIP: 310 West Wall Ste. 500 Address: City, State ZIP: Midland, TX 79701 City, State ZIP: City, State ZIP: Reporting: Level III			_	+	_	+	,		our Rush		Due Dat			Ed	ect Location	Pro
Manager: Ashton Thielke Bill to: (if different) Carmona Resources Carmona Resources Work Order Comments Iny Name: Carmona Resources Company Name: 310 West Wall Ste. 500 Address: Program: UST/PST PRP Brownfields RRC Inte ZIP: Midland, TX 79701 City, State ZIP: City, State ZIP: Reporting: Level III Level III PST/UST TRRP Inte ZIP: 432-813-8988 Email: ThielkeA@Carmonaresources.com Pother: Intercept Analysis REQUEST Analysis REQUEST	1004 100					_		Pres.	sh	4	Routi		2412		ect Number:	Pro
Manager: Ashton Thielke Bill to: (if different) Carmona Resources Work Order Comments Iny Name: Carmona Resources Company Name: Program: UST/PST PRP Brownfields RRC Is: 310 West Wall Ste. 500 Address: Address: Reporting: Level Level PST/UST TRP Iate ZIP: Midland, TX 79701 City, State ZIP: Reporting: Level PST/UST TRP 432-813-8988 Email: ThielkeA@Carmonaresources.com Deliverables: EDD ADaPT Other:	Preservative	ST	REQUES	ANALYSIS					d	Turn Aroun		#23	Shugart Unit	Benson	ject Name:	Pro
er: Ashton Thielke Bill to: (if different) Carmona Resources Carmona Resources Company Name: 310 West Wall Ste. 500 Midland, TX 79701 City, State ZIP: Carmona Resources Company Name: Carmona Resources Company Name: Carmona Resources Company Name: Company Name:	Other:	liverables: EDD	Del			m	urces.co	onaresou	eA@Carm		Е			432-813-8988		Pho
Ashton Thielke Carmona Resources Carmona Resources Company Name: 310 West Wall Ste. 500 Address: Carmona Resources Company Name: Carmona Resources Company Name: Carmona Resources Company Name: Carmona Resources Company Name: Carmona Resources Program: UST/PST PRP Brownfields RRC State of Project:	RRP	porting:Level II ☐ Level III ☐PS	Rep		×				ate ZIP:	City, St			701	Midland, TX 79		City
Ashton Thielke Carmona Resources Company Name: Carmona Resources Company Name: Page 3 Work Order Comments Work Order Comments Program: UST/PST PRP Brownfields RRC	-	[Sta						Ś.	Addres				310 West Wall	dress:	Ado
Ashton Thielke Bill to: (if different) Carmona Resources Work Order Comments	R	PRP	Pro						ny Name:	Compa			ources	Carmona Reso	npany Name:	Co
Page	Comments	Work Order			ces	a Resour	Carmon		(if different)	Bill to:				Ashton Thielke	ject Manager:	Pro
]													
					ody	Cust	of of	Ha.	0							
Chain of Custody																

					37 2	2	9735	2,5			The state of the s	0.00	In for	home Pr	5 3 1
a) Date/Time	Received by: (Signature)	ature)	hed by: (Signature)	Relinquished	R.	Date/Time	Date/		re)	Received by: (Signature)	Received		(Signature)	Relinquished by:	
	ces.com	naresour	a@carmo	mcarmon	com and	ources.	monares	ıring@car	to cmoeh	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	Please s	8.7			
															T
		_		+	+										T
							+								
					-		,								T
					×	×	1 ×	Comp		×		3/27/2025	4.5')	5W-12 (4.5')	27
					×	×	1· ×	Comp		×		3/27/2025	4.5')		1-1
					×	×	1 ×	Comp		×		3/27/2025	4.5')		lai.
Sample Comments		×				TP	# of Cont	Grab/ Comp	Water	Soil	Time	Date	tification	San	7
NaOH+Ascorbic Acid: SAPC		o .				H 80			i	Corrected Temperature:	Corrected		-	rotal Containers.	
Zn Acetate+NaOH: Zn					Ch		В	,	ż	Temperature Reading:	Temperat	NO NIA	ls: Yes	Total Containers:	7 0
Na ₂ S ₂ O ₃ : Na ₂ S _O ₂	HOL				lorio		Pa	0,0	Cto.	Factor:	Correction Factor.	No.		Cooler Custody Seals:	2 0
NaHSO NARIS			i i	,1	le 45				井戸	eter ID:	Thermometer ID:	Yes No		Received Intact:	Z
H_PO : HP					500		neter	8	Yes	Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT	S
						+ MR	s	Opm Opm	lab, if received by 4:30pm	lab, if received by 4:30pm				PO#:	ס
Cool: Cool MeOH: Me		,			,	0)		24 Hour Rush	24 NO	TAT starts th		KR		Sampler's Name:	S
None: NO DI Water: H ₂ O		+		+	T		Code		34 115	Duo Data:		Eddy Co NM		Project Location	P
Preservative Codes		REQUEST	ANALYSIS REQUEST	A			Pres.	5	ne 🗸 Rush	Routine	į	2412		Project Number:	ס
									Around	ď.	#23	Benson Shugart Unit #23	Benso	Project Name:	P
Other		Delive				es.com	naresourc	ThielkeA@Carmonaresources.com	l: Thielke	Email:		8	432-813-8988	Phone:	П
UST TRRP TIEVELIV	Reporting:Level III Level III PST/UST	Repor						te ZIP:	City, State ZIP			79701	Midland, TX 79701	City, State ZIP:	10
Provincius NAC upenuna		State							Address			all Ste. 500	310 West Wall Ste. 500	Address:	Ъ
5	Program: UST/PST PRP Rrow	Progr						y Name:	Company Name:			sources	Carmona Resources	Company Name:	10
	Work Order Comments				esources	Carmona Resources	Ca	different)	Bill to: (if different)			ke	Ashton Thielke	Project Manager:	1-
Page 39 of 39	Work Order No:				*						4	*			
9				OV:	usto	of C	Chain of Custody	0							



April 01, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BENSON SHUGART UNIT #23

Enclosed are the results of analyses for samples received by the laboratory on 03/31/25 16:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/31/2025 Reported: 04/01/2025

BENSON SHUGART UNIT #23

Project Number: 2412

Project Name:

Project Location: EDDY CO NM

Sampling Date: 03/28/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 10 (5.75') (H251893-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.12	106	2.00	4.01	
Toluene*	<0.050	0.050	03/31/2025	ND	2.16	108	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.10	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	6.18	103	6.00	4.18	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/01/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	214	107	200	1.55	
DRO >C10-C28*	<10.0	10.0	03/31/2025	ND	210	105	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	03/31/2025	ND					
Surrogate: 1-Chlorooctane	81.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.6	% 40.6-15	3						

A I J D. ... 711

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Revised Date 05012020 Rev. 2020.1					-						5
		O .									6
		4	(14)	-	0.840	Make Si	m sa	Mille		1	1 Krown 15
		2		-	200		19 01	21110		The second	The state of the s
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	me	Date/Time		ire)//	Received by: (Signature	Recei		by: (Signature)	Relinquished by:
	urces.com	Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	rces.com	naresou	@carmo	to cmoehring	e send results	Please			
	-	-	ŀ		╟		-				
			+	1	+			T			
			-								
										,	
				#	+	1		\dagger			
			+	1	\top		. ;	T	0202020	C3-10 (5.75)	03-10
			×	×		Comp	×		3/38/3035	(E 7E')	00 10
Sample Comments	Si		TPI		# of	Water Comp	Soil	Time	Date	entification	Sample Identification
NaOn+Ascoldic Acid. SAFO	Na Ci		H 80			89:1	Corrected Temperature:	Correcte	-		Total Containers:
ZII ACEIAIETNAON. ZII	ZII ACEI			_		190	Temperature Reading:	Tempera	No NIA	Yes	Sample Custody Seals:
Na ₂ O ₂ O ₃ , Na ₃ O ₃			_	_	F	10.3c	Correction Factor:	Correcti	No NIA	Yes	Cooler Custody Seals:
NaHSO4: NABIS	HOLL NaHSC			K 80	ara	#140	Thermometer ID:	Thermor	Yes No		Received Intact:
푸			500	-	nete	Yes No	Wet lce:	Yes No	Temp Blank:		SAMPLE RECEIPT
H ₂ NaOH: Na	H ₂ S0 ₄ : H ₂		0+1			ved by 4:30pm	lab, if rece				PO#.
	HCL: HC	9	MRO			TAT starts the day received by the	TAT starts the		KR		Sampler's Name:
	Cool: Cool))			24 Hour Rush	Due Date:		Eddý Co, NM	Edi	Project Location
NO DI Water: H ₂ O	None: NO				Code	✓ Rush	Routine		2412		Project Number:
ervati		ANALYSIS REQUEST			0	Turn Around	Turn	#23	Benson Shugart Unit #23	Benson S	Project Name:
Culei.	Deliverables: EDD ADAF	Delive	OM M	ources.c	monares	ThielkeA@Carmonaresources.com	Email:			432-813-8988	Phone:
		Repor				City, State ZIP:			701	Midland, TX 79701	City, State ZIP:
FBBB I GWALIV	hormor	Odde				Address:			Ste. 500	310 West Wall Ste. 500	Address:
RRC _uperruna _	Program: UST/PST LPRP Brownfields RRC	Progr				Company Name:			urces	Carmona Resources	Company Name:
			Calliona Nesources	Callion		bill to. (if different)				Ashton Thielke	Project Manager:
nts	Work Order Comments	ň	a Resource	Carmon		Dill to: 64 different	,		3	-	
Page1 of1_	P										
ge 4											
of 4	Work Order No: 16										
		You	Ouott		Cliqu						
7		NAV	Chain of Custody	2	7						



April 01, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BENSON SHUGART UNIT #23

Enclosed are the results of analyses for samples received by the laboratory on 03/31/25 16:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/31/2025 Reported: 04/01/2025

Project Name: BENSON SHUGART UNIT #23

Project Number: 2412

Project Location: EDDY CO NM

Sampling Date: 03/28/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BACKFILL SAMPLE (H251892-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.12	106	2.00	4.01	
Toluene*	<0.050	0.050	03/31/2025	ND	2.16	108	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.10	105	2.00	3.94	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	6.18	103	6.00	4.18	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/01/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2025	ND	214	107	200	1.55	
DRO >C10-C28*	<10.0	10.0	03/31/2025	ND	210	105	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	03/31/2025	ND					
Surrogate: 1-Chlorooctane	77.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.4	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

	1	remiquisited by: (sign													Backfill Sample		Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#.	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: 432	AIG LIF.	4 7ID:		Company Name: Ca	Project Manager: As	
		(Signature)					+	_								aon	tion		Yes No	Yes No	Yes No	Temp Blank			Edd)		Benson St	432-813-8988	Inidialid, IX /9/01	land TV 707	310 West Wall Ste 500	Carmona Resources	Ashton Thielke	
	Mul	R			- P			1							3/28/2025	Date			NIA	A	and the same of			중	Eddy Co, NM	2412	Benson Shugart Unit #23		07		Ste 500	ırces		
	Missel	eceived b			lease ser	_	_	_								Time	!	Corrected T	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No					23							
(alle	Received by: (Signature)			nd results to										×	Soil		Corrected Temperature:	e Reading:	-actor:	er ID:	5	lab, if rece	TAT starts the	Due Date:	Routine	Turi	Email:						
	all den	1			Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com		-	-	_						Comp	Water Comp	Grab/	3.9	2012	10,3	1	Yes No	lab, if received by 4:30pm	24 Hour N	24 Hoir Bush	√ Rush	Turn Around		City, State ZIP	Address:	Add want	Company Na	Bill to: (if different)	
	38-188				@carmor			-	-							np Cont			ľ	Pai		eters				Pres.		Carmonar	P		j	me.	enti	
	25	Date/Time			naresou			/						+	×				ВТІ	EX 8	0218	3			ā	8		esource				0	2	
	1104	me			ırces.co										×	т	PH 8	8015	М ((GRO	+ D	RO +	MR	0)	1			s.com				Callifolia Nesoulces	B	
4	7 2	R			om and							-	+	+	×				Chlo	ride	450	0	_		+							Saninos		
		Relinquish		licali	mcarm									+	\dagger					,					+									
		hed by:		Olla@c	ona@c								1	_	1		ı								İ	ANAL								
		ed by: (Signature)		armona		1	+			-	+	+	+	+	+	_	_	_				_	_		+	ANALTSIS REQUEST	5							
		лге)		aresour										+	+						-			,	+	EQUES		Deli	Rep	Stat	Pro			
		Re		ces.co		-	-	4		-	1		1	1	1													Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST ☐PRP ☐Brownfields ☐RRC			
		Received by: (Signature)		3		+	+	+	+	+	+	+	+	+	+	_		_	_		6	_	_	_	-				vel II	ject:	ST/PST			Wo
	9. (08	by: (Sia									\dagger		+	\dagger	t	_							_	_	+				PVP		□ PRP	Work		rk Or
	ilaturo)	nature)			\parallel	+	+	+	4	-		_					_	N		DLD								ADaPT []	Тэф		Brow	Order (der No
															0	Can	VaOH+A	n Aceta	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H₃PO₄: HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Pn					nfields	Work Order Comments	F	B.
	Dal	72													Campic Comments	ando Co	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	NaSO ₃	NABIS	Ð	2		0	0	Preservative Codes	Ouigi.	Other	ropp	1	RRC	nts	Page	Work Order No: ₩35/898
	Date/Time	Timo															cid: SAF	t: Zn				NaOH: Na	HNO ₃ : HN	MeOH: Me	DI Water: H ₂ O	ve Coo		Lev		[uperfund		1_ of_	98
															δ		ဂိ					Va	Ż	S D	er: H ₂ O	les		Level IV			rfund		-	Page 4

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 461226

QUESTIONS

ı	Operator:	OGRID:
ı	CHEVRON U S A INC	4323
ı	6301 Deauville Blvd	Action Number:
ı	Midland, TX 79706	461226
ı		Action Type:
ı		[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMCS0124832969
Incident Name	NMCS0124832969 BENSON SHUGART WATERFLOOD UNIT #23 @ 30-015-04544
Incident Type	Other
Incident Status	Reclamation Report Received
Incident Well	[30-015-04544] BENSON SHUGART WATERFLOOD UNIT #023

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Benson Shugart Waterflood Unit #23
Date Release Discovered	07/05/2001
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Injection Produced Water Released: 333 BBL Recovered: 0 BBL Lost: 333 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

Phone: (505) 629-6116

Energy, Minerals and Natural Resources Oil Conservation Division Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us 1220 S. St Francis Dr.

QUESTIONS, Page 2

Action 461226

Santa Fe, NM 87505

State of New Mexico

QUESTIONS (continued) OGRID: Operator CHEVRON USAINC 4323 6301 Deauville Blvd Action Number Midland, TX 79706 461226 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation) QUESTIONS Nature and Volume of Release (continued) Is this a gas only submission (i.e. only significant Mcf values reported) No, according to supplied volumes this does not appear to be a "gas only" report. Was this a major release as defined by Subsection A of 19.15.29.7 NMAC Yes Reasons why this would be considered a submission for a notification of a major From paragraph A. "Major release" determine using: release (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. Initial Response The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury. The source of the release has been stopped The impacted area has been secured to protect human health and the True environment Released materials have been contained via the use of berms or dikes, absorbent True pads, or other containment devices All free liquids and recoverable materials have been removed and managed True appropriately If all the actions described above have not been undertaken, explain why Not answered. Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission 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. Name: Amy Barnhill

Title: Waste & Water Specialist

Email: ABarnhill@chevron.com

Date: 05/13/2025

I hereby agree and sign off to the above statement

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 461226

QUESTIONS (continued)

 Operator:
 OGRID:

 CHEVRON U S A INC
 4323

 6301 Deauville Blvd
 Action Number:

 Midland, TX 79706
 461226

 Action Type:
 [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)	
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 500 and 1000 (ft.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Please answer all the questions th	nat apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	al extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 CI B)	1860
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	399
GRO+DRO	(EPA SW-846 Method 8015M)	399
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 N	,	
Per Subsection B of 19.15.29.11 N which includes the anticipated tim	MAC unless the site characterization report includes completed	
Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wi	VMAC unless the site characterization report includes completed elines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM/
Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wil On what date will (or did) th	NMAC unless the site characterization report includes completed letines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 03/25/2024
Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wil On what date will (or did) th	JMAC unless the site characterization report includes completed telines for beginning and completing the remediation. If the remediation commence the final sampling or liner inspection occur	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 03/25/2024 03/27/2025
Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wil On what date will (or did) th On what date will (or was) the	IMAC unless the site characterization report includes completed elines for beginning and completing the remediation. If the remediation commence the final sampling or liner inspection occur the remediation complete(d)	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM/ 03/25/2024 03/27/2025 12/04/2024
Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date wil On what date will (or did) th On what date will (or was) th What is the estimated surfate What is the estimated volun	WMAC unless the site characterization report includes completed telines for beginning and completing the remediation. If the remediation commence the final sampling or liner inspection occur the remediation complete(d) the remediation complete in square feet) that will be reclaimed	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM/ 03/25/2024 03/27/2025 12/04/2024 40000
Per Subsection B of 19.15.29.11 Numbich includes the anticipated time. On what estimated date will On what date will (or did) the On what date will (or was) to what is the estimated surfate what is the estimated surfate the surfate of the control of the contro	WMAC unless the site characterization report includes completed telines for beginning and completing the remediation. If the remediation commence the final sampling or liner inspection occur the remediation complete(d) the remediation complete (d) the reclaimed the complete (in cubic yards) that will be reclaimed the control of the remediation complete (in cubic yards) that will be reclaimed the control of the reclaimed that will be reclaimed the control of the remediation complete (in cubic yards) that will be reclaimed the reclaimed that will be reclaimed the remediation completed that will be reclaimed the remediation completed th	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 03/25/2024 03/27/2025 12/04/2024 40000 853

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 461226

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	461226
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

er Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Name: Amy Barnhill Title: Waste & Water Specialist I hereby agree and sign off to the above statement Email: ABarnhill@chevron.com Date: 05/13/2025

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

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 461226

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	461226
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 6

Action 461226

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	461226
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	444990
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2025
What was the (estimated) number of samples that were to be gathered	28
What was the sampling surface area in square feet	3900

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	3900	
What was the total volume (cubic yards) remediated	853	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	40000	
What was the total volume (in cubic yards) reclaimed	853	
Summarize any additional remediation activities not included by answers (above)	"Site assessment completed, excavated and remediated areas that exceeded set in Table 1 of NMAC 19.15.29.12/13. Backfilled with clean backfill(lab confirmed).	

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 (in .pdf format) 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.

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.

Name: Amy Barnhill
Title: Waste & Water Specialist
Email: ABarnhill@chevron.com
Date: 05/13/2025

What was the total reclamation surface area (in square feet) for this site

What was the total volume of replacement material (in cubic yards) for this site

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

Phone: (505) 629-6116 Online Phone Directory

Energy, Minerals and Natural Resources Oil Conservation Division https://www.emnrd.nm.gov/ocd/contact-us 1220 S. St Francis Dr.

QUESTIONS, Page 7

Action 461226

QUESTIONS (continued)

Santa Fe, NM 87505

State of New Mexico

Operator: CHEVRON U S A INC 6301 Deauville Blvd	OGRID: 4323 Action Number:
Midland, TX 79706	461226
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes

1482 Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

40000

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	04/18/2025
Summarize any additional reclamation activities not included by answers (above)	Site assesment completed, excavated and remedated areas that exceeded set in Table 1of NMAC 19.15.29.12/13. Backfilled with clean topsoil (lab confirmed). Reseeded with BLM #2 LPC seed mix and reclaimed and ripped to promote seed growth via hand distribution.

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13

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

Name: Amy Barnhill Title: Waste & Water Specialist I hereby agree and sign off to the above statement Email: ABarnhill@chevron.com Date: 05/13/2025

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 8

Action 461226

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	461226
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.		

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 461226

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	461226
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation and reclamation closure for the site is approved.	6/27/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/27/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/27/2025