

SITE INFORMATION

Closure Report
Marquardt 1 Penn Fed 1 (04.04.2024)
Incident ID: NAPP2409950483
Eddy County, New Mexico
Unit I Sec 01 T25S R26E
32.15875°, -104.24352°

Point of Release:

A third-party contractor was performing work in the area to decommission surface poly line and severed an active Blackbuck Resources line instead of their target line.

Release Date: 04.04.2024

Volume Released: 100 Barrels of Produced Water Volume Recovered: 0 Barrels of Produced Water

CARMONA RESOURCES

Prepared for: Blackbuck Resources 3300 North A Street Building 5 - Suite 120 Midland, Texas 79705

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



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



June 13, 2024

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

Re: Closure Report

Marquardt 1 Penn Fed 1 (04.04.2024)

Incident ID: NAPP2409950483

Blackbuck Resources

Site Location: Unit I, S01, T25S, R26E (Lat 32.15875°, Long -104.24352°)

Eddy County, New Mexico

Mr. Bratcher:

On behalf of Blackbuck Resources (Blackbuck), Carmona Resources, LLC has prepared this letter to document site activities for the Marquardt 1 Penn Fed 1. The site is located at 32.15875°, -104.24352° within Unit I, S01, T25S, R26E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on April 4, 2024, caused by a third-party contractor performing work in the area to decommission a surface polyline and severed an active Blackbuck Resources line instead of their target line. It resulted in approximately one hundred (100) barrels of produced water with zero (0) barrels of produced water recovered. The impacted area is located along the lease road and into a nearby pipeline right-of-way (ROW). Refer to Figure 3 for a spill overview. The Notice of Release form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified groundwater determination bore is approximately 0.91 miles Southeast of the site in S6, T22S, R27E and was drilled in 2023. The groundwater determination bore had no signs of water at a depth of 60 feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Remediation Activities

On May 13, 2024, Hydro-vac crews began uncovering buried Cimarex Energy Co (Cimarex) and Blackbuck Resources pipelines. Once all buried pipelines were uncovered and depths identified, both Cimarex and Blackbuck approved the beginning of excavation efforts.

Between May 23, 2024, and June 5, 2024, Excavation and Hydro-vac crews worked together to remove all impacted soils onsite to accommodate active oilfield operations and vehicle traffic in the area. 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 web portal on May 21, 2024, May 22, 2024, May 29, 2024, and May 29, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of eighty-seven (87) confirmation floor samples (CS-1 through CS-87) and sixty-nine (69) sidewall samples (SW-1 through SW-69) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4A-4E.

All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride, except for CS-70, CS-71 and SW-25 which showed elevated chloride levels ranging from 704 mg/kg to 2,680 mg/kg. SW-25 was excavated another 1' to remove impacted material. The area of CS-70 and CS-71 were scraped an additional 0.25' to remove impacted material. Refer to Table 1.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 17,320 square feet and 1,300 cubic yards of material were excavated and transported offsite for proper disposal.

Backfill Material

Backfill material was sourced locally from Mr. Fred Beard. The backfill pit is located at 32.161928, -104.316363. Two (2) composite stockpile samples (Stockpile Composite #1 & Stockpile Composite #2) were collected. They 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. Backfill Pit location is shown in Figure 5.

5.0 Conclusions

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

Sincerely,

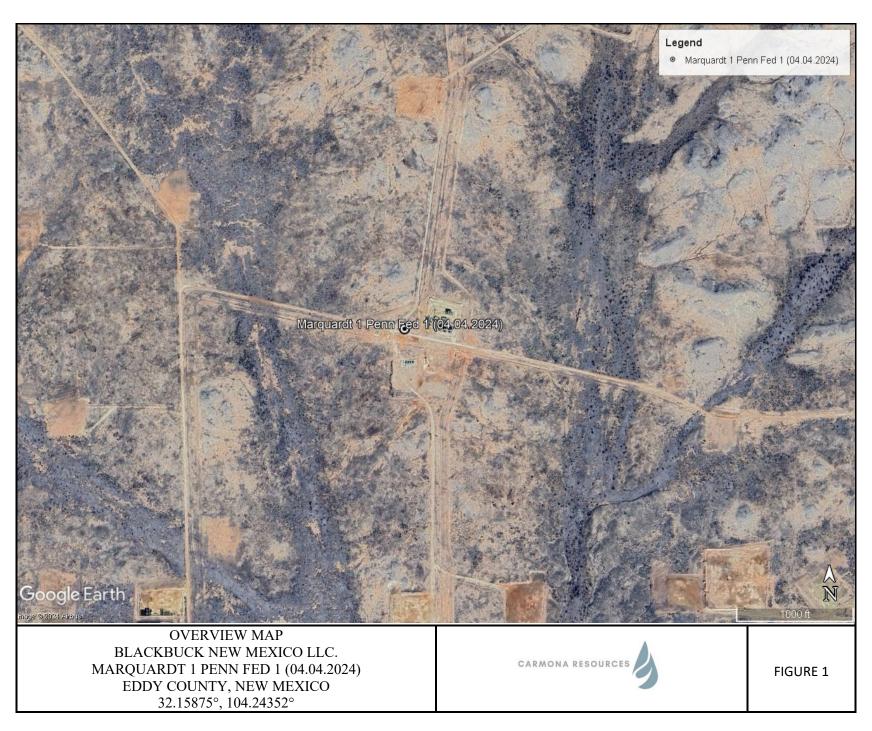
Carmona Resources, LLC

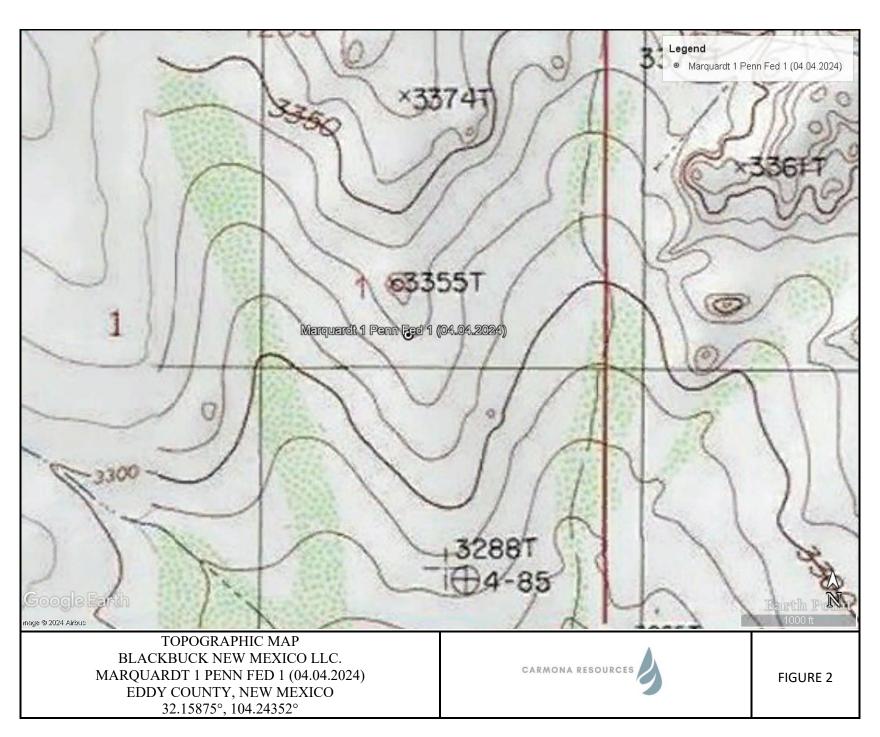
Ashton Thielke Sr. Project Manager Miranda Milwee Project Manager

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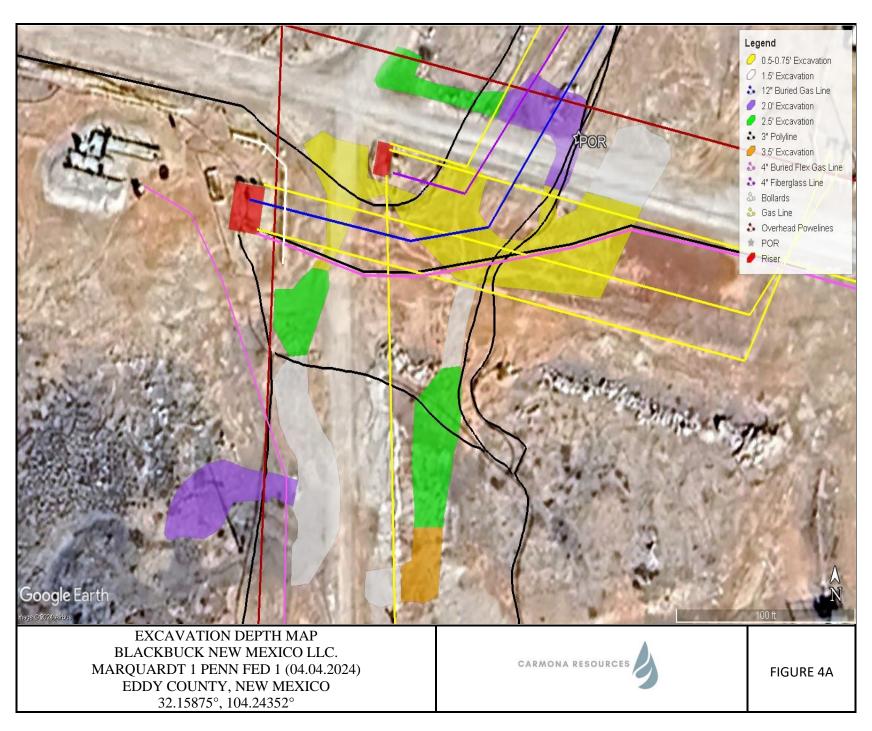
FIGURES

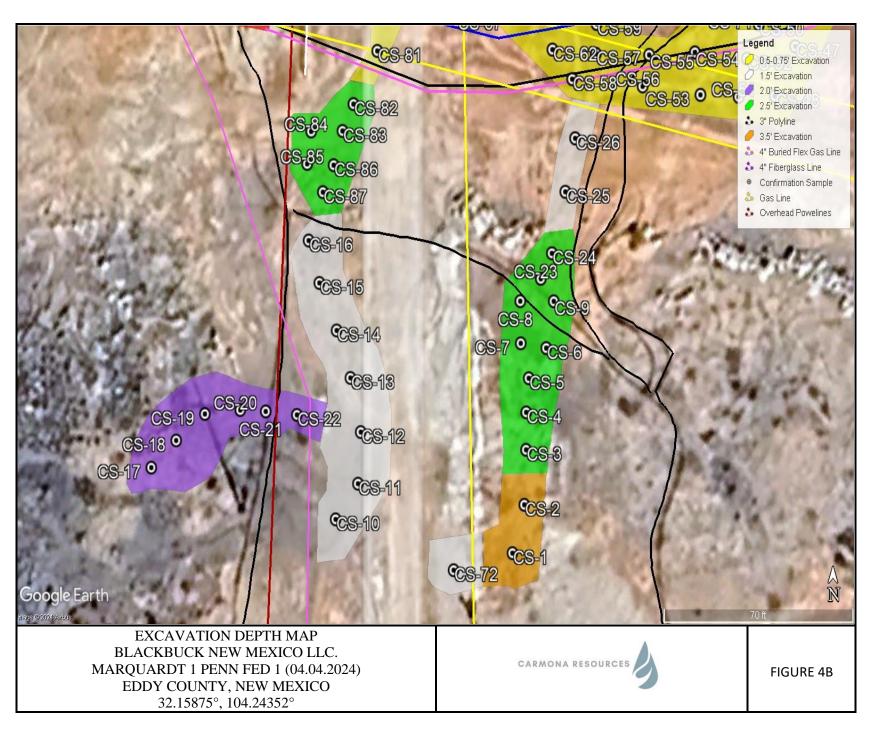
CARMONA RESOURCES



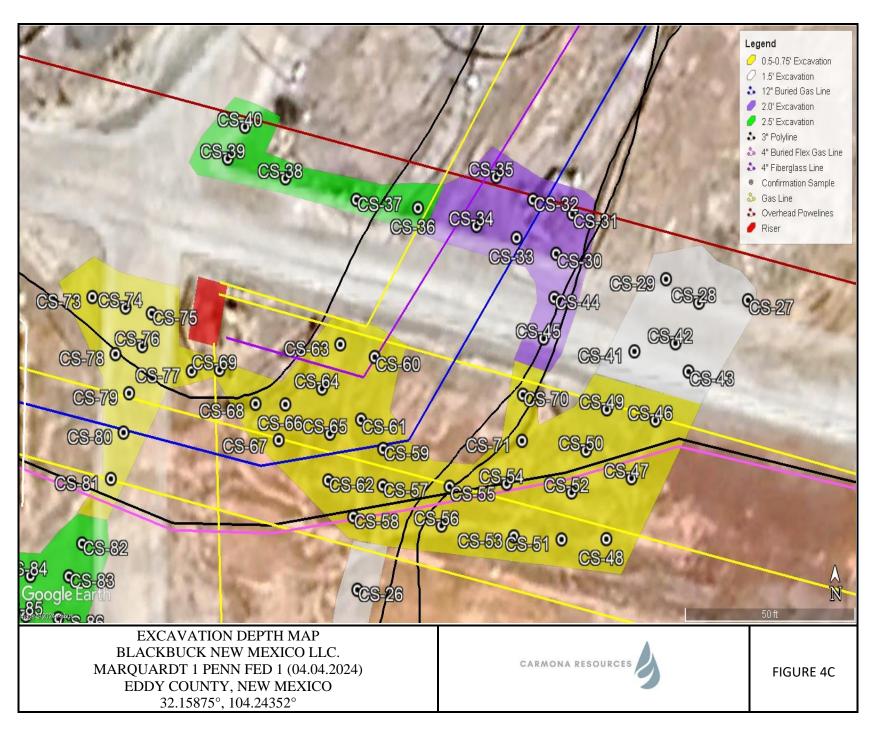


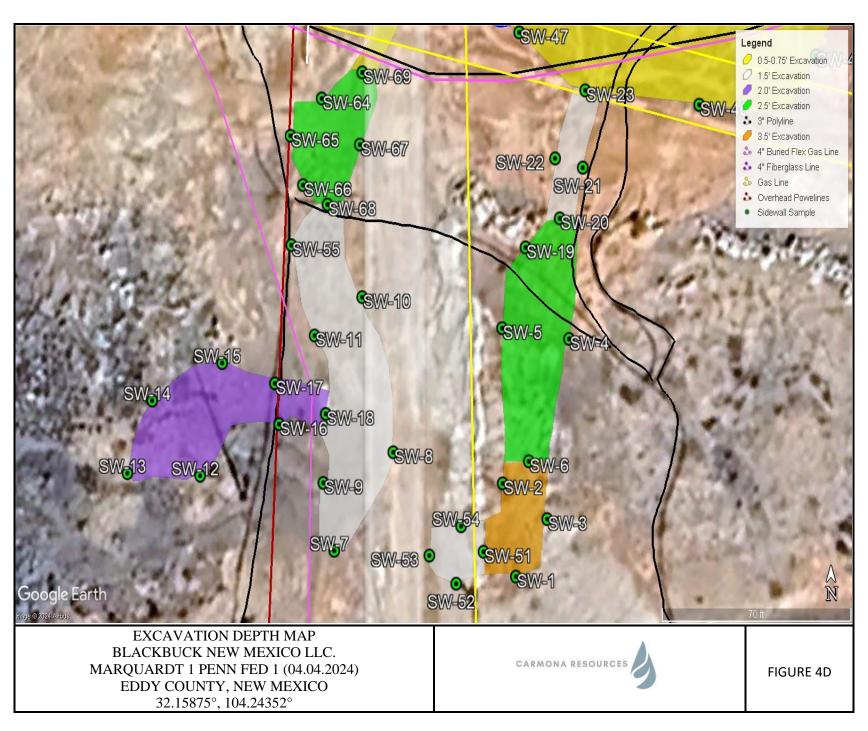


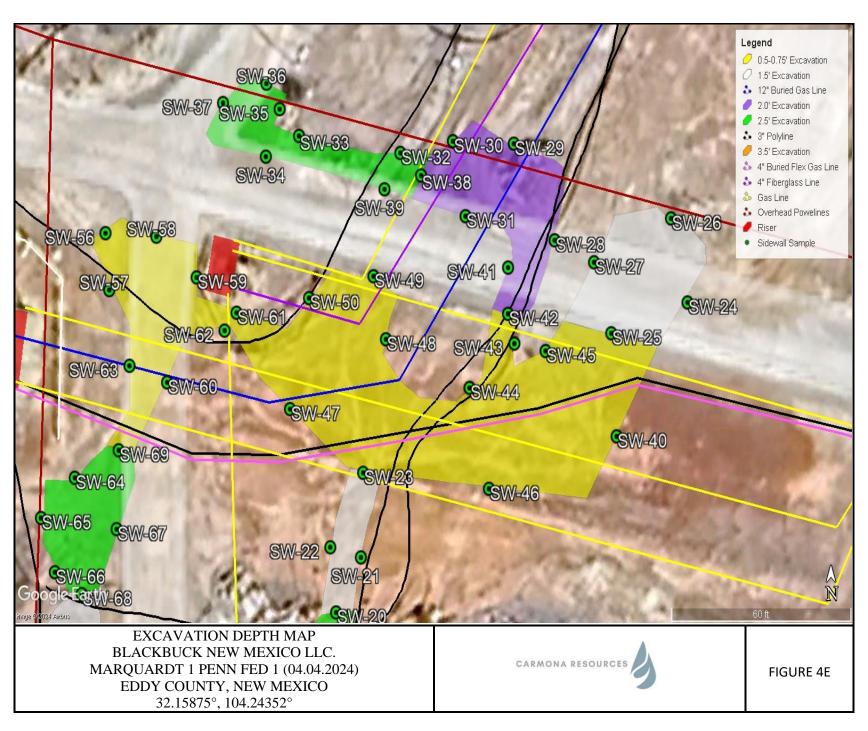




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APPENDIX A

CARMONA RESOURCES

Sample ID	Date	Depth (ft)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
			GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	5/24/2024	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
CS-2	5/24/2024	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
CS-3	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	368
CS-4	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	384
CS-5	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	208
CS-6	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	256
CS-7	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	176
CS-8	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	416
CS-9	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	400
CS-10	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	448
CS-11	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
CS-12	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	240
CS-13	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
CS-14	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	416
CS-15	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	96.0
CS-16	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
CS-17	5/28/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	144
CS-18	5/28/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	288
CS-19	5/28/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	448
CS-20	5/28/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	400
CS-21	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	128
CS-22	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
CS-23	5/30/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	96.0
CS-24	5/30/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
CS-25	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	224
CS-26	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	464
	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 Floor Sample

Sample ID	Date	Depth (ft)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
			GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-27	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
CS-28	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	128
CS-29	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
CS-30	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	16.0
CS-31	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	32.0
CS-32	6/3/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	16.0
CS-33	6/3/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
CS-34	6/3/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	192
CS-35	6/3/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	176
CS-36	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	304
CS-37	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	368
CS-38	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
CS-39	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	304
CS-40	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	16.0
CS-41	6/3/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	80.0
CS-42	6/3/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
CS-43	6/3/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
CS-44	6/4/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
CS-45	6/4/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	368
CS-46	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	464
CS-47	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	384
CS-48	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	96.0
CS-49	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	96.0
CS-50	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	192
CS-51	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
CS-52	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
	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 Floor Sample

Commis ID	Doto	Donath (ft)		ТРН	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-53	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	96.0
CS-54	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	80.0
CS-55	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
CS-56	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	464
CS-57	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	480
CS-58	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	192
CS-59	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	128
CS-60	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	48.0
CS-61	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	128
CS-62	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
CS-63	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	32.0
CS-64	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	48.0
CS-65	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	80.0
CS-66	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	32.0
CS-67	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	48.0
CS-68	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	48.0
CS-69	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
CS-70	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	752
03-70	6/7/2024	0.5-0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-71	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	704
	6/7/2024	0.5-0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-72	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
CS-73	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-74	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-75	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-76	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-77	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
Regulato	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 Floor Sample
Removed

0 1 10		D 4 (6)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-78	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-79	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-80	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-81	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-82	6/5/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-83	6/5/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-84	6/5/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-85	6/5/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-86	6/5/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-87	6/5/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
Regula	tory 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 Floor Sample

Table 1
Tactical Water Group
Marquadt 1 Penn Fed 1
Eddy County, New Mexico

Sample ID	Date	Donath (ft)		ТРН	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-1	5/24/2024	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	128
SW-2	5/24/2024	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
SW-3	5/24/2024	3.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	240
SW-4	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	320
SW-5	5/24/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	416
SW-6	5/24/2024	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	176
SW-7	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	176
SW-8	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	80.0
SW-9	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	208
SW-10	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
SW-11	5/24/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	144
SW-12	5/28/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
SW-13	5/28/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
SW-14	5/28/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	304
SW-15	5/28/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	144
SW-16	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	224
SW-17	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	224
SW-18	5/30/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	144
SW-19	5/30/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	80.0
SW-20	5/30/2024	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	336
SW-21	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
SW-22	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	528
SW-23	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	128
SW-24	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	192
SW-25	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	2,680
511 Z0	6/5/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-26	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	96.0
Regulato	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 (SW) Confirmation Sidewall Sample

Sample ID	Date	Depth (ft)		TPH (mg/kg)			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
	Date	Deptii (it)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-27	5/30/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
SW-28	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
SW-29	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	32.0
SW-30	5/30/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	16.0
SW-31	6/3/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	304
SW-32	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	240
SW-33	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	304
SW-34	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	112
SW-35	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	96.0
SW-36	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	176
SW-37	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	80.0
SW-38	6/3/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	160
SW-39	6/3/2024	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	96.0
SW-40	6/3/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	144
SW-41	6/4/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	208
SW-42	6/4/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	384
SW-43	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
SW-44	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
SW-45	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
SW-46	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
SW-47	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	432
SW-48	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	240
SW-49	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	224
SW-50	6/4/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	128
SW-51	6/5/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-52	6/5/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
	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

(SW) Confirmation Sidewall Sample

Removed

0 1 10	5.	D 41 (6)		TPH (mg/kg)			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-53	6/5/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-54	6/5/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-55	6/5/2024	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-56	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-57	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-58	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-59	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-60	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-61	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-62	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-63	6/5/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-64	6/5/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-65	6/5/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-66	6/5/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-67	6/5/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-68	6/5/2024	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-69	6/5/2024	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	ry Criteria ^A Analyzed					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) Confirmation Sidewall Sample

		B 11 (42)		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Stockpile Composite #1	6/4/2024	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	48.0
Stockpile Composite #2	6/4/2024	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.150	64.0
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

APPENDIX B

CARMONA RESOURCES

Blackbuck New Mexico LLC

Photograph No. 1

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Northeast, area of of CS-1 through CS-9, CS-23 and CS-24.



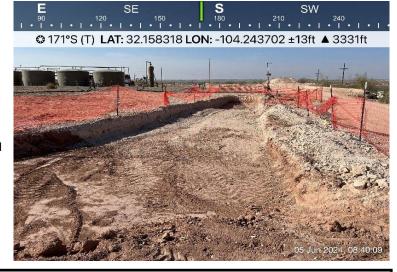
Photograph No. 2

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View South, area of of CS-1 through CS-9, CS-23 and CS-24.



Photograph No. 3

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-10 through CS-16.





Blackbuck New Mexico LLC

Photograph No. 4

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View North, area of CS-10 through CS-16.



Photograph No. 5

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View South, area of CS-17 through CS-20.



Photograph No. 6

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-20 through CS-22.





Blackbuck New Mexico LLC

Photograph No. 7

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View North, area of CS-24 through CS-26.



Photograph No. 8

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View S, area of CS-25 and CS-26.



Photograph No. 9

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View West, area of CS-27 through CS-29.





Blackbuck New Mexico LLC

Photograph No. 10

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View West, area of CS-30 through CS-35.



Photograph No. 11

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-30 through CS-35.



Photograph No. 12

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View East, area of CS-36 through CS-40.





Blackbuck New Mexico LLC

Photograph No. 13

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View West, area of CS-41 through CS-43.



Photograph No. 14

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View North, area of CS-44 and CS-45.



Photograph No. 15

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-46 through CS-69.





Blackbuck New Mexico LLC

Photograph No. 16

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-45 through CS-69.



Photograph No. 17

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-56 through CS-69.



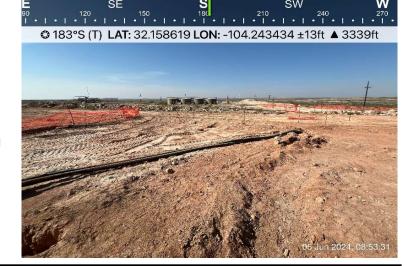
Photograph No. 18

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View South, area CS-46 through CS-56, CS-70, and CS-71.





Blackbuck New Mexico LLC

Photograph No. 19

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View South, area of CS-72.



Photograph No. 20

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-73 through CS-81.



Photograph No. 21

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-73 through CS-76 and CS-78 through CS-81.





Blackbuck New Mexico LLC

Photograph No. 22

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View North, area of CS-82 through CS-87.



Photograph No. 23

Facility: Marquardt 1 Penn Fed 1

County: Eddy County, New Mexico

Description:

View South, area of CS-82 through CS-87.





APPENDIX C

CARMONA RESOURCES

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

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

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

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

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

QUESTIONS

Action 331077

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	331077
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source							
Please answer all the questions in this group.							
Site Name	Marquardt 1 Penn Fed 1						
Date Release Discovered	04/04/2024						
Surface Owner	Federal						

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	Yes
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

lature and Volume of Release	
faterial(s) released, please answer all that apply below. Any calculations or specific justifications	for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Pipeline (Any) Produced Water Released: 100 BBL Recovered: 0 BBL Lost: 100 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)	This release was caused by a third party contractor, (Tactical Water Group) severing a produced water pipeline, while performing work for another Operator, (Select Energy Services). Blackbuck Resources, nor its facilities, equipment, contractors, or personnel wer the cause of this release.

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

QUESTIONS, Page 2

Action 331077

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	331077
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (d) substantially damages property or the environment.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

ACKNOWLEDGMENTS

Action 331077

ACKNOWLEDGMENTS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	331077
l l	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

W.	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
ᅜ	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
$\overline{}$	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
≤	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.
✓	I acknowledge the fact that 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.
✓	I acknowledge the fact that, 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.

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

CONDITIONS

Action 331077

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	331077
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
kmoser	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/8/2024

Received by OCD: 6/21/2024 9:41:17 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

	Page 38 of 222
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)	
☐ Description of remediation activities		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Title: Title:		
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
remediate contamination that poses a threat to groundwater, surface	water, human health, or the environment nor does not relieve the responsible	
remediate contamination that poses a threat to groundwater, surface	water, human health, or the environment nor does not relieve the responsible or regulations.	

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

QUESTIONS

Action 346420

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	346420
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409950483
Incident Name	NAPP2409950483 MARQUARDT 1 PENN FED 1 @ 0
Incident Type	Produced Water Release
Incident Status	Notification Accepted

Location of Release Source	
Site Name	Marquardt 1 Penn Fed 1
Date Release Discovered	04/04/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,900
What is the estimated number of samples that will be gathered	100
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/24/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Gilbert Priego, (432-813-7389) Miranda Milwee, (432-813-9652)
Please provide any information necessary for navigation to sampling site	GPS Coordinates 32.158435N, 104.243623W

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

CONDITIONS

Action 346420

CONDITIONS

No transport of the control of the c	
Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	346420
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	$^{\prime}$	Condition Date
kmoser	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.	5/21/2024

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

QUESTIONS

Action 346639

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	346639
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409950483
Incident Name	NAPP2409950483 MARQUARDT 1 PENN FED 1 @ 0
Incident Type	Produced Water Release
Incident Status	Notification Accepted

Location of Release Source	
Site Name	Marquardt 1 Penn Fed 1
Date Release Discovered	04/04/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	18,900	
What is the estimated number of samples that will be gathered	100	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/28/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Sampler contacts; Gilbert Priego, (432-813-7389) Miranda Milwee, (432-813-9652) Sampling will occur on 5/28/2024 thru 5/31/2024	
Please provide any information necessary for navigation to sampling site	GPS coordinates of work site is 32.158435N, 104.243623W Eddy County	

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

CONDITIONS

Action 346639

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	346639
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created B	$^{\prime}$	Condition Date
kmoser	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.	5/22/2024

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

QUESTIONS

Action 348643

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	348643
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#) nAPP2409950483	
Incident Name	NAPP2409950483 MARQUARDT 1 PENN FED 1 @ 0
Incident Type	Produced Water Release
Incident Status	Notification Accepted

Location of Release Source	
Site Name	Marquardt 1 Penn Fed 1
Date Release Discovered	04/04/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	18,900	
What is the estimated number of samples that will be gathered	100	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/03/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sampler contact info - Gilbert Priego, 432-813-7389 or Miranda Milwee, 432-813-9652 Sampling will take place on 6/3/2024 and 6/4/2024	
Please provide any information necessary for navigation to sampling site	GPS Coordinates - 32.158435N, 104.243623W Carmona Resources will be onsite from 06/03/2024 - 06/04/2024 to collect composite confirmation samples	

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

CONDITIONS

Action 348643

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	348643
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
kmoser	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.	5/29/2024

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QUESTIONS

Action 349868

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	349868
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409950483
Incident Name	NAPP2409950483 MARQUARDT 1 PENN FED 1 @ 0
Incident Type	Produced Water Release
Incident Status	Notification Accepted

Location of Release Source	
Site Name	Marquardt 1 Penn Fed 1
Date Release Discovered	04/04/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,900
What is the estimated number of samples that will be gathered	100
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/05/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sampler contact info. Gilbert Priego, 432-813-7389 Miranda Milwee, 432-813-9653 Carmona Resources will be onsite from 06/05/2024 thru 06/07/2024 to collect composite confirmation samples
Please provide any information necessary for navigation to sampling site	GPS Coordinates: 32.158435N, 104.243623W

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

CONDITIONS

Action 349868

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	349868
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

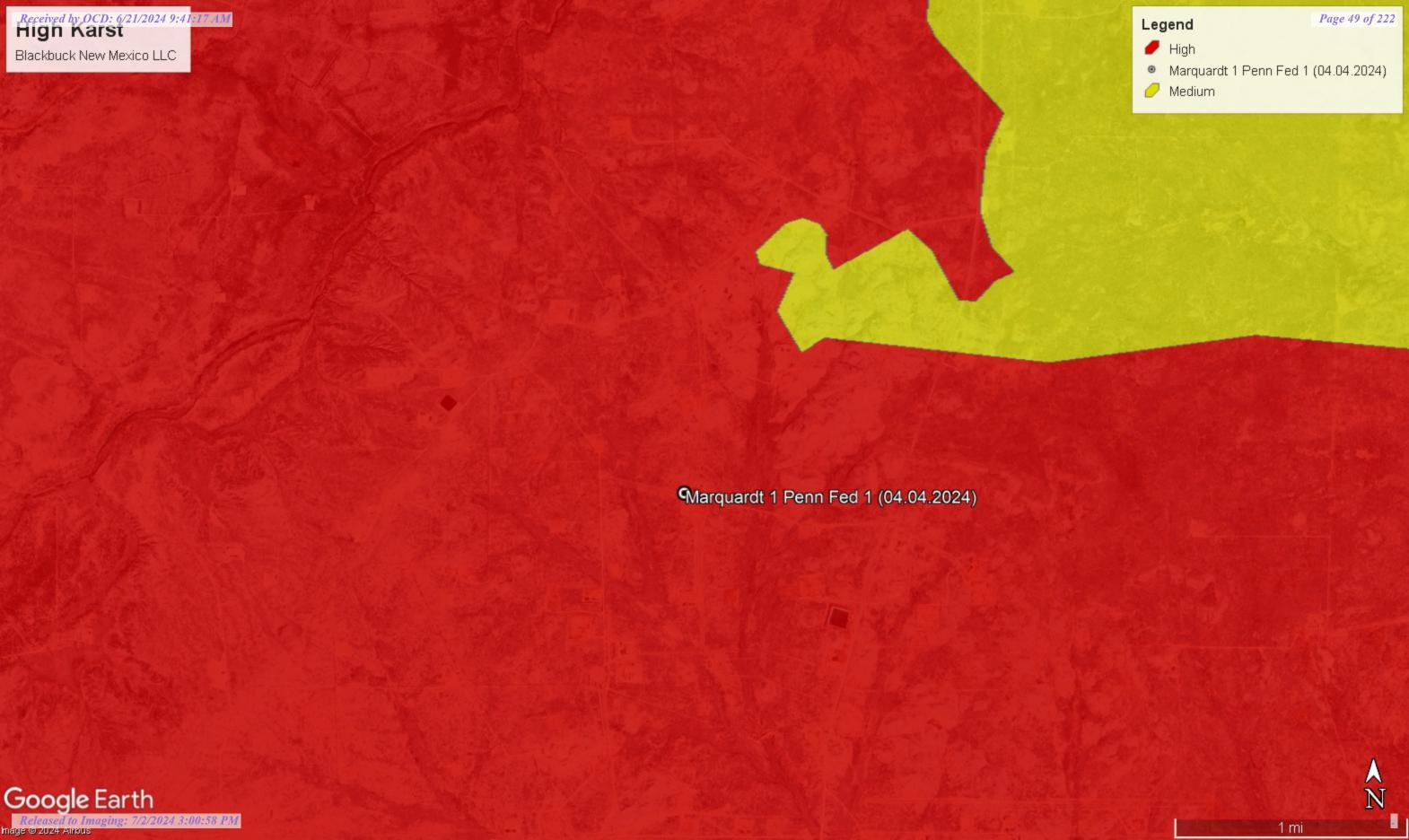
CONDITIONS

Created E		Condition Date
kmose	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.	5/31/2024

APPENDIX D

CARMONA RESOURCES







New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

•	,	•	-							-			
	POD												
	Sub-		Q	QQ	!						Depth	Depth	Water
POD Number	Code basin	County	64	16 4	Sec	Tws	Rng	X	Y	Distance	Well	Water	Column
<u>C 00819</u>	С	ED		4 4	26	24S	26E	570022	3560935* 🌑	2957	62	42	20
C 04586 POD1	С	ED	4	1 1	35	24S	26E	568993	3560476 🌑	3205	150		
C 03200 POD1	С	ED	2	3 4	34	24S	26E	568206	3559349 🌍	3301	80	52	28
C 03569 POD1	CUB	ED	2	1 1	14	25S	26E	568862	3555746 🌍	3539	30	0	30
C 01089	С	ED	3	4 1	03	25S	26E	567505	3558398* 🌕	3827	96	45	51

Average Depth to Water: 34 feet

> Minimum Depth: 0 feet

Maximum Depth: 52 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 571331.1 Northing (Y): 3558282.8 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.

SOIL BOR	RE LOG		
Project:	Scoter 6-31 Fed Com #7H,43H,44H Battery	Date:	May 31, 2023
Type:	Exploratory Water Bore	Location:	Scoter 6-31 Fed Com 7H,43H,44H Battery

Depth	Soil Type	Classification	Comments
0′	Caliche		
5′	Gypsum/Clay		Gypsum-70% Clay-30%
10′	Gypsum/Red Clay		Gypsum-50% Red Clay-50%
15"	Gypsum/Red Clay		Gypsum-50% Red Clay-50%
20′	Gypsum/Red Clay		Gypsum-50% Red Clay-50%
25′	Gypsum		
30′	Gypsum/Red Clay		Gypsum-20% Red Clay-80%
35′	Gypsum/Red Clay		Gypsum-90% Red Clay-10%
40′	Gypsum/Red Clay		Gypsum-50% Red Clay-50%
45′	Gypsum/Red Clay		Gypsum-50% Red Clay-50%
50′	Gypsum/Red Clay		Gypsum-50% Red Clay-50%
55′	Gypsum/Red Clay		Gypsum-50% Red Clay-50%
60′ TD	Gypsum/Red Clay		Gypsum-50% Red Clay-50%
			No Groundwater 5/31/2023 - 6/08/2023
			GPS: 32.155795,-104.22849

North West Elevation

② 132°SE (T) ● 32.155777, -104.228452 ±2 m ▲ 991 m



North East Elevation

② 238°SW (T) ● 32.155795, -104.22849 ±1 m ▲ 993 m





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 00819

26E 24S

570022 3560935*

Driller License: 30 **Driller Company:**

BARRON, EMMETT

Driller Name:

EMMETT BARRON

Drill Finish Date:

02/25/1958

Plug Date:

Drill Start Date: Log File Date:

02/23/1958 03/25/1958

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

62 feet

Depth Water: 42 feet

Water Bearing Stratifications: **Bottom Description** Top

42

62 Sandstone/Gravel/Conglomerate

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.

4/11/24 10:09 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 03200 POD1 26E 24S

568206 3559349

Driller License: 685 **Driller Company:** BRAZEAL, JOHN

Driller Name: WAYNE BRAZEAL

Drill Start Date: 08/12/2005 **Drill Finish Date:**

08/20/2005

Plug Date:

Shallow

Log File Date: 08/18/2006 **PCW Rcv Date:**

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

8 GPM 52 feet

Casing Size:

Depth Well:

80 feet

Depth Water:

Water Bearing Stratifications:

Bottom Description Top

65

75 Sandstone/Gravel/Conglomerate

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.

4/11/24 10:10 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

C 01089

25S

567505 3558398*

11/01/1962

ABBOTT BROTHERS COMPANY **Driller License:** 46 **Driller Company:**

Driller Name: ABBOTT, FLOYD

Drill Start Date: 08/06/1962 **Drill Finish Date:** 08/07/1962 Plug Date: Log File Date: 08/17/1962 **PCW Rcv Date:**

Shallow Source:

Pump Type: Pipe Discharge Size: **Estimated Yield:**

Casing Size: 7.00 **Depth Well:** 96 feet Depth Water: 45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	45	65	Sandstone/Gravel/Conglomerate
	65	75	Sandstone/Gravel/Conglomerate
	75	90	Sandstone/Gravel/Conglomerate
Casing Perforations:	Тор	Bottom	
	45	90	

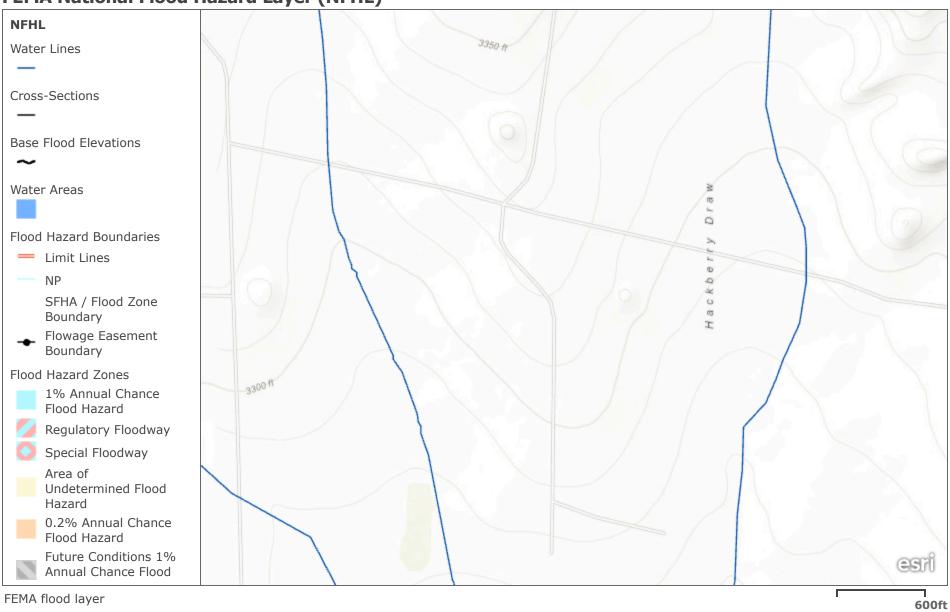
^{*}UTM location was derived from PLSS - see Help

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.

4/11/24 10:12 AM

POINT OF DIVERSION SUMMARY

FEMA National Flood Hazard Layer (NFHL)



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)

NFHL

Water Lines

Cross-Sections

_

Base Flood Elevations



Water Areas



Flood Hazard Boundaries

Limit Lines

- NP

SFHA / Flood Zone Boundary

Flowage Easement Boundary

Flood Hazard Zones



1% Annual Chance Flood Hazard



Regulatory Floodway



Special Floodway



Area of Undetermined Flood Hazard



0.2% Annual Chance Flood Hazard



Future Conditions 1% Annual Chance Flood



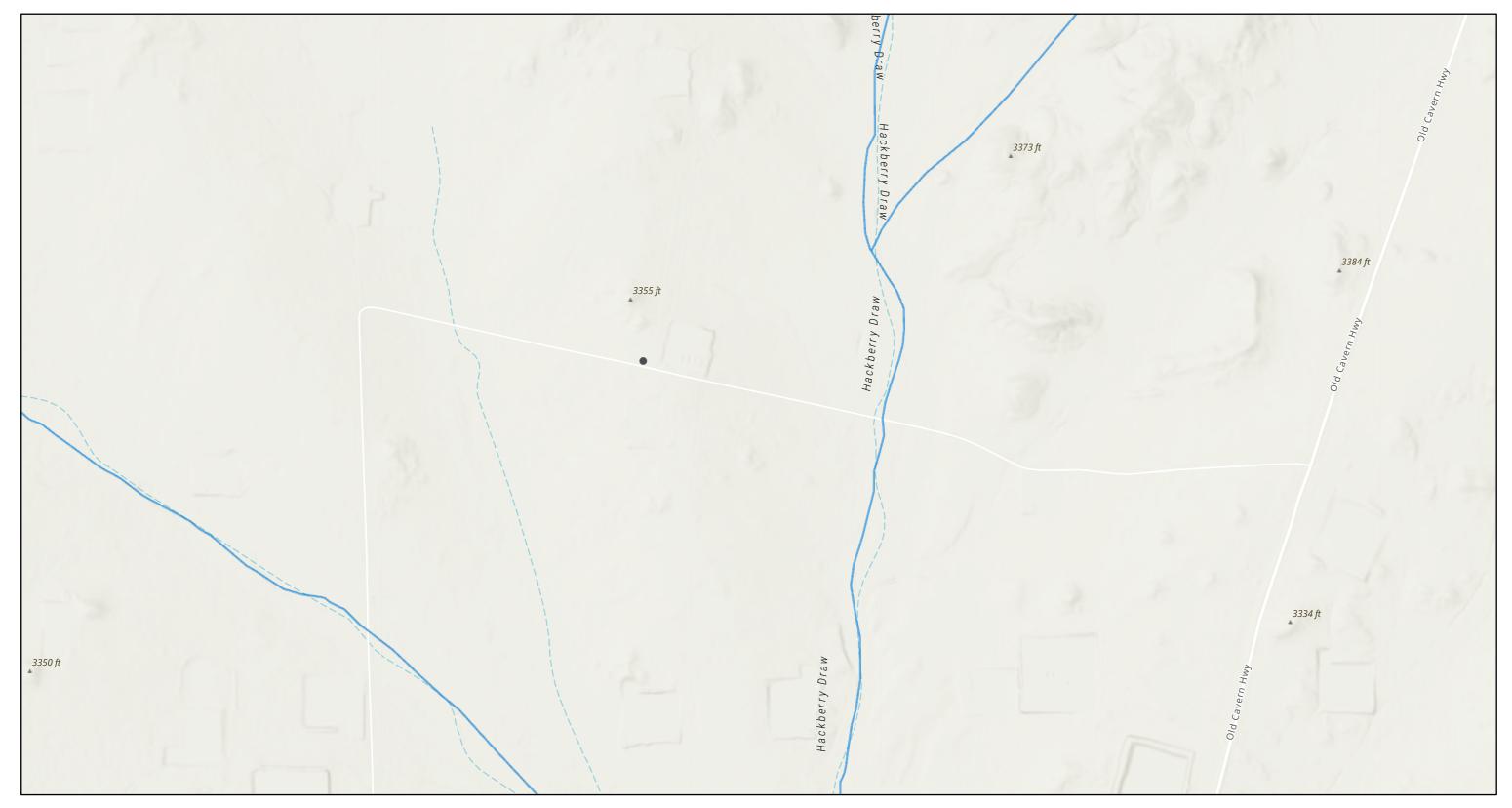
FEMA flood layer

Maxar | Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph,

GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

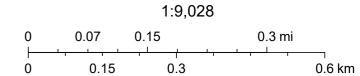
600ft

Marquardt 1 Penn Fed 1 (04.04.2024)



4/18/2024, 1:55:22 PM

OSE Streams



Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, NM

APPENDIX E

CARMONA RESOURCES



May 30, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARQUARDT 1 PENN FEDERAL #001 (04.04.24)

Enclosed are the results of analyses for samples received by the laboratory on 05/24/24 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 05/24/2024 Reported: 05/30/2024 Sampling Date: 05/24/2024 Sampling Type: Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0² Project Number: 2337

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sample ID: CS - 1 (3.5') (H242923-01)

BTEX 8021B

DILX 6021D	ilig	/ Ng	Allalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	05/29/2024	ND	416	104	400	7.41	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

Analyzed By: MS

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024 Sampling Date: 05/24/2024 Sampling Type: Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Project Number:

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

2337 Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 2 (3.5') (H242923-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	< 0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	64.0	16.0	05/29/2024	ND	416	104	400	7.41	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024 Sampling Date: 05/24/2024 Sampling Type:

Project Name:

BTEX 8021B

MARQUARDT 1 PENN FEDERAL #001 (04

Soil

Project Number: 2337 Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 3 (2.5') (H242923-03)

BIEX 8021B	ilig/	ĸy	Allalyze	u by. M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	368	16.0	05/29/2024	ND	416	104	400	7.41	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

05/30/2024 Samplir MARQUARDT 1 PENN FEDERAL #001 (04 Samplir

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 4 (2.5') (H242923-04)

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

Analyzed By: MS

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported:

Sampling Date: 05/24/2024 05/30/2024 Sampling Type: Soil

Project Name:

MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Cool & Intact Project Number: Sample Received By: 2337 Tamara Oldaker

Analyzed By: MS

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 5 (2.5') (H242923-05)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 6 (2.5') (H242923-06)

BTEX 8021B

DILX GOZID	ilig/ kg		Analyzea by: 145						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106% 71.5-13		4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Analyzed By: MS

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Celeg D. Freene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported:

05/30/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: CS - 7 (2.5') (H242923-07)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

05/30/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 8 (2.5') (H242923-08)

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

05/30/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 9 (2.5') (H242923-09)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024 Sampling Date: 05/24/2024

Project Name:

BTEX 8021B

05/30/2024 Sampling Type: Soil MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Coo

Project Number: 2337

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 10 (1.5') (H242923-10)

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 11 (1.5') (H242923-11)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

 05/24/2024
 Sampling Date:
 05/24/2024

 05/30/2024
 Sampling Type:
 Soil

Project Name: MARG Project Number: 2337

MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition: Cool & Intact 2337 Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 12 (1.5') (H242923-12)

BTEX 8021B

BIEX 8021B	ilig/	ĸy	Allalyze	u by. M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.1	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

 05/24/2024
 Sampling Date:
 05/24/2024

 05/30/2024
 Sampling Type:
 Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0² Project Number: 2337

01 (0² Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 13 (1.5') (H242923-13)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.0	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 14 (1.5') (H242923-14)

BIEX 8021B	ilig/	ĸy	Allalyze	u by. Mo					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.9	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

05/30/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 15 (1.5') (H242923-15)

DILX GOZID	11197	ng .	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.1	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported:

05/30/2024 Sampling Type:

Analyzed By: MS

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/24/2024

Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: CS - 16 (1.5') (H242923-16)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

05/30/2024 Sa MARQUARDT 1 PENN FEDERAL #001 (04 Sa

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (3.5') (H242923-17)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

 05/24/2024
 Sampling Date:
 05/24/2024

 05/30/2024
 Sampling Type:
 Soil

Project Name: MARQUARDT
Project Number: 2337

MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition: Cool & Intact 2337 Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 2 (3.5') (H242923-18)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported:

05/30/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (3.5') (H242923-19)

BTEX 8021B	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/29/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024 Sampling Date: 05/24/2024 Sampling Type: Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 4 (2.5') (H242923-20)

BTEX 8021B

	9/	9	7	= 7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.08	104	2.00	2.87	
Toluene*	<0.050	0.050	05/29/2024	ND	2.18	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.13	107	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.64	111	6.00	2.61	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/29/2024	ND	199	99.4	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	195	97.5	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					
Surrogate: 1-Chlorooctane	68.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.0	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported:

05/30/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (2.5') (H242923-21)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.9	2.00	5.24	
Toluene*	<0.050	0.050	05/29/2024	ND	1.89	94.7	2.00	4.30	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.93	96.3	2.00	3.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.57	92.9	6.00	3.28	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	207	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	191	95.5	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (1.0') (H242923-22)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.9	2.00	5.24	
Toluene*	<0.050	0.050	05/29/2024	ND	1.89	94.7	2.00	4.30	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.93	96.3	2.00	3.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.57	92.9	6.00	3.28	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	207	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	191	95.5	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	65.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.6	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

MARQUARDT 1 PENN FEDERAL #001 (04

Received: 05/24/2024 Reported: 05/30/2024

4 Sampling Date: 05/24/2024 4 Sampling Type: Soil

Project Name:

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 7 (1.5') (H242923-23)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.9	2.00	5.24	
Toluene*	<0.050	0.050	05/29/2024	ND	1.89	94.7	2.00	4.30	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.93	96.3	2.00	3.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.57	92.9	6.00	3.28	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/29/2024	ND	448	112	400	3.64	
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	05/28/2024	ND	207	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	191	95.5	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	74.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

Applyzod By: MC

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



05/24/2024

Tamara Oldaker

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported:

05/30/2024 Sampling Type: Soil Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 8 (1.5') (H242923-24)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.9	2.00	5.24	
Toluene*	<0.050	0.050	05/29/2024	ND	1.89	94.7	2.00	4.30	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.93	96.3	2.00	3.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.57	92.9	6.00	3.28	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.2	% 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	80.0	16.0	05/29/2024	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	05/28/2024	ND	207	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	191	95.5	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024 Sampling Date: 05/24/2024 Sampling Type: Soil

Project Name:

BTEX 8021B

MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact

Project Number: 2337

Sample Received By:

Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 9 (1.5') (H242923-25)

DIEX 8021B	ilig/	ĸy	Allalyze	u by. M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.9	2.00	5.24	
Toluene*	< 0.050	0.050	05/29/2024	ND	1.89	94.7	2.00	4.30	
Ethylbenzene*	< 0.050	0.050	05/29/2024	ND	1.93	96.3	2.00	3.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.57	92.9	6.00	3.28	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.2	% 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	208	16.0	05/29/2024	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	05/28/2024	ND	207	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	191	95.5	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	78.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

Analyzed By: MS

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Celeg D. Freene



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

Sampling Date: 05/24/2024 Sampling Type: Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Cool & Intact Sample Received By: Project Number: 2337 Tamara Oldaker

Analyzed By: MS

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 10 (1.5') (H242923-26)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.9	2.00	5.24	
Toluene*	<0.050	0.050	05/29/2024	ND	1.89	94.7	2.00	4.30	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.93	96.3	2.00	3.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.57	92.9	6.00	3.28	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.2	% 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	160	16.0	05/29/2024	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	05/28/2024	ND	207	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	191	95.5	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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Celecy D. Keene



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/24/2024 Reported: 05/30/2024

05/30/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 11 (1.5') (H242923-27)

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.94	96.9	2.00	5.24	
Toluene*	<0.050	0.050	05/29/2024	ND	1.89	94.7	2.00	4.30	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.93	96.3	2.00	3.67	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.57	92.9	6.00	3.28	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.2	% 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	05/29/2024	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	05/28/2024	ND	207	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	05/28/2024	ND	191	95.5	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	05/28/2024	ND					
Surrogate: 1-Chlorooctane	78.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.9	% 49.1-14	8						

Applyzod By: MC

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Celey & Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Project Manager:

Ashton Thielke
Carmona Resources
310 W Wall St Ste 500

Bill to: (if different)

Company Name:

Carmona Resources

Address:

Reporting:Level III Level III ST/UST RRP

Level IV

State of Project:

Program: UST/PST PRP rownfields RC

perfund

Chain of Custody

Page 30 of 32

Chain of Custody

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Min	Comments:	SW-4 (2.5')	SW-3 (3.5')	SW-2 (3.5')	SW-1 (3.5')	CS-16 (1.5')	CS-15 (1.5')	CS-14 (1.5')	CS-13 (1.5')	CS-12 (1.5')	CS-11 (1.5')	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:	e ZIP:		Company Name:	Project Manager:
1/m		(2.5')	3.5')	3.5')	3.5')	(1.5')	(1.5')	(1.5')	(1.5')	(1.5')	(1.5')	tification		ils: Yes	. Ye	76)				Eddy		Marquardt 1 P	432-813-8988	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Ashton Thielke
Relinquished I		5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	Date		No (N/A)	No (N/A)	Yes No	Temp Blank:		MM	Eddy County, New Mexico	2337	enn Federal#		701	Ste 500	urces	
Relinquished by: (Signature)												Time	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes (No)			/lexico		Marquardt 1 Penn Federal #001 (04.04.24)					
		×	×	×	×	×	×	×	×	×	×	Soil	perature:	eading:	OT.);	Wet lce:			Due Date:	□ Routine	Turr	Email:				
					0	С	C	C	C	C	C	Water Comp	1	2.80		MO	Yes No			72 hrs	☑ Rush	Turn Around		City, State ZIP	Address:	Company Name	Bill to: (if different)
5:3		C 1	C 1	C 1	1	1	1	1	1	1	1	ab/ # of mp Cont			P	araı	mete	ers			Code	,				re:	t)
Pate/Tin		×	×	×	×	×	×	×	×	×	×			В	STEX	802	21B										Carm
Date/Time		×	×	×	×	×	×	×	×	×	×	ТР	Н 80	15M	(GF	RO +	DRO) + N	IRO)							Carmona Resources
500		×	×	×	×	×	×	×	×	×	×			С	hlori	de 4	1500				-						ources
	, F. 20		\vdash													_					\vdash						
																	1					ANALY					
Re			L	-			-	-		L	-						_				\vdash	ANALYSIS REQUEST					
Received by:			\vdash	\vdash	\vdash		+	- 1		\vdash	\vdash			_	_		-				\vdash	QUEST	Delive	Repo	State	Progr	
by: (Sig)																	1						Deliverables: EDD	rting:Lev	State of Project:	am: US	
(Signature)		L	_	\vdash	\vdash	-	\vdash	-	\vdash	-	\vdash									_	+	-		Reporting:Level II Level III	:]	/PST	~
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												Samp	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H₃PO₄: HP	H ₂ SO ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preser	Utner:			Program: UST/PST ☐PRP ☐ rownfields ☐ tRC	Work Order Comments
Date												Sample Comments	orbic Acid	NaOH: Zi	3SO ₃	SIR	5	Nac	IN	Me	DIV	Preservative Codes	ler:				
Date/Time												nents	SAPC					NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ 0	odes		LevelIV		perfund	
									_	7									_		0				7.		

Work Order No:

Page 31 of 32

Relinquish Mulh	Comments:		SW-10 (1.5')	SW-9 (1.5')		SW-7 (1.5')		SW-5 (2.5') 5/24/2024	Sample Identification Date	Total Containers:	Sample Custody Seals: Yes No XN/A	Cooler Custody Seals: Yes No (N/A	Received Intact: Yes No	SAMPLE RECEIPT Temp Blank:	PO#:		Project Location Eddy County, New Mexico	ň	Project Name: Marquardt 1 Penn Federal #001 (04.04.24)	Phone: 432-813-8988	City, State ZIP: Midland, TX 79701	Address: 310 W Wall St Ste 500	Company Name: Cambridge Concession		Briect Manager Ashton Thielke		
Relinquished by: (Signature)		×	* X	×	×	×	×	×	Time Soil	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes Mo Wet Ice:			Mexico Due Date:	□ Routine		Email:							
		С	С	С	С	С	С	С	Water Comp		Q.X.	100	140	Yes (No)			72 hrs	☑ Rush	Turn Around		City, State ZIP:	Addiess.	Address:	Company Name:	Bill to: (if different)		
5-34-24/450		× ×	×	×	1 × ×	×	1 × ×	+	Cont T	РН 8	0151	вте	Para EX 80 ERO oride)21B + DF	RO +	MRC)	Code	Pres.						Carmona Resources		
Re MUMAR															ν.	10			ANALYSIS REQUEST			(b ×					
Received by: (Signature)																			UES I		Deliverables: EDD	Reporting:Level II Level III	State of Project:	Program: UST/PST PRP	Wo		Work O
Date/lime									Sample Comments		NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	U		HCL: HC HNO3: HN		None: NO DI Water: H ₂ O	Dreservative Code	ADaPT Other:	el III ST/UST RRP Level IV		RP rownfields RC iperfund	ents	Page3 of3	Work Order No: H34313



May 31, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARQUARDT 1 PENN FEDERAL #001 (04.04.24)

Enclosed are the results of analyses for samples received by the laboratory on 05/28/24 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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)

Wite Sough

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,

Mike Snyder For 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: 05/28/2024 Reported: 05/31/2024

MARQUARDT 1 PENN FEDERAL #001 (0²

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/28/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 17 (2.0') (H242951-01)

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	05/29/2024	ND	2.04	102	2.00	4.26	
Toluene*	<0.050	0.050	05/29/2024	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.06	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.27	105	6.00	4.01	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	144	16.0	05/30/2024	ND	432	108	400	3.64	
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	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/28/2024 Reported: 05/31/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/28/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 18 (2.0') (H242951-02)

		/kg		d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.04	102	2.00	4.26	
Toluene*	<0.050	0.050	05/29/2024	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.06	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.27	105	6.00	4.01	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	288	16.0	05/30/2024	ND	432	108	400	3.64	
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	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/28/2024 Reported: 05/31/2024

05/31/2024 MARQUARDT 1 PENN FEDERAL #001 (0²

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/28/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 19 (2.0') (H242951-03)

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	05/29/2024	ND	2.04	102	2.00	4.26	
Toluene*	<0.050	0.050	05/29/2024	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.06	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.27	105	6.00	4.01	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	448	16.0	05/30/2024	ND	432	108	400	3.64	
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	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/28/2024

Sampling Date: 05/28/2024

Reported: 05/31/2024

Sampling Type: Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0² Project Number: 2337

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 20 (2.0') (H242951-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	2.04	102	2.00	4.26	
Toluene*	<0.050	0.050	05/29/2024	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.06	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.27	105	6.00	4.01	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	400	16.0	05/30/2024	ND	432	108	400	3.64	
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	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Analyzed By: JH

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 5 of 11



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/28/2024 Reported: 05/31/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/28/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 12 (2.0') (H242951-05)

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	05/29/2024	ND	2.04	102	2.00	4.26	
Toluene*	<0.050	0.050	05/29/2024	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.06	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.27	105	6.00	4.01	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	160	16.0	05/30/2024	ND	432	108	400	3.64	
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	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	18						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/28/2024 Reported:

05/31/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/28/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW - 13 (2.0') (H242951-06)

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	05/29/2024	ND	2.04	102	2.00	4.26	
Toluene*	<0.050	0.050	05/29/2024	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.06	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.27	105	6.00	4.01	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	lloride, SM4500Cl-B mg/kg			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/30/2024	ND	432	108	400	3.64	
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	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/28/2024 Reported: 05/31/2024

05/31/2024 Sampling T MARQUARDT 1 PENN FEDERAL #001 (04 Sampling C

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/28/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 14 (2.0') (H242951-07)

2024 ND 2.04 2024 ND 2.11 2024 ND 2.06 2024 ND 6.27	05/29/202 ² 05/29/202 ² 05/29/202 ²	Reporting Limit 0.050 0.050 0.050 0.150 0.300	Result <0.050 <0.050 <0.050 <0.050 <0.150	Analyte zene* uene* ylbenzene* al Xylenes*	Analyzed 05/29/2024 05/29/2024 05/29/2024	ND ND	2.04 2.11	% Recovery 102 106	True Value QC 2.00 2.00	RPD 4.26 4.16	Qualifier
2024 ND 2.11 2024 ND 2.06 2024 ND 6.27	05/29/2024 05/29/2024 05/29/2024	0.050 0.050 0.150	<0.050 <0.050 <0.150	uene* ylbenzene*	05/29/2024	ND	2.11	106			
2024 ND 2.06 2024 ND 6.27	05/29/202 ⁴	0.050 0.150	<0.050 <0.150	ylbenzene*					2.00	4.16	
2024 ND 6.27	05/29/2024	0.150	<0.150	•	05/29/2024	ND	2.06				
				al Xylenes*			2.06	103	2.00	3.95	
2024 ND	05/29/2024	0.300	0.200		05/29/2024	ND	6.27	105	6.00	4.01	
			<0.300	al BTEX	05/29/2024	ND					
	134	% 71.5-134	105 %	rogate: 4-Bromofluorobenzene (PID	4						
nalyzed By: HM	Analy	/kg	mg/	oride, SM4500CI-B	Analyze	d By: HM					
ed Method Blank BS	Analyzed	Reporting Limit	Result	Analyte	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2024 ND 432	05/30/2024	16.0	304	oride	05/30/2024	ND	432	108	400	3.64	
nalyzed By: MS	Analy	/kg	mg/	1 8015M	Analyze	d By: MS					
ed Method Blank BS	Analyzed	Reporting Limit	Result	Analyte	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2024 ND 232	05/30/2024	10.0	<10.0	O C6-C10*	05/30/2024	ND	232	116	200	1.66	
2024 ND 232	05/30/2024	10.0	<10.0	O >C10-C28*	05/30/2024	ND	232	116	200	0.987	
2024 ND	05/30/2024	10.0	<10.0	DRO >C28-C36	05/30/2024	ND					
	134	% 48.2-134	103 %	rogate: 1-Chlorooctane	4						
	148	% 49.1-148	96.79	rogate: 1-Chlorooctadecane	8						
2024 ND 232	05/30/202 ⁴ 05/30/202 ⁴	10.0 10.0 % 48.2-134	<10.0 <10.0	O >C10-C28* T DRO >C28-C36 rogate: 1-Chlorooctane	05/30/2024 05/30/2024	ND					

Analyzed By: 14

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/28/2024 Reported: 05/31/2024

MARQUARDT 1 PENN FEDERAL #001 (0²

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/28/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 15 (2.0') (H242951-08)

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	05/29/2024	ND	2.04	102	2.00	4.26	
Toluene*	<0.050	0.050	05/29/2024	ND	2.11	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	2.06	103	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	6.27	105	6.00	4.01	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	144	16.0	05/30/2024	ND	432	108	400	3.64	
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	05/30/2024	ND	232	116	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/30/2024	ND	232	116	200	0.987	
EXT DRO >C28-C36	<10.0	10.0	05/30/2024	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.4	% 49.1-14	8						

Analyzed By: 14

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

Mund	// , /			Comments:			8W-15 (2.0')	SW-14 (2.0')		SW-12 (2.0')			CS 40 (2.0)		CS_17 (2 0")	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #:	Sampler's Name:	Project Location	H	Project Name: Marqua	Phone: 432-813-8988	City, State ZIP: Midland	Address: 310 W V	Company Name: Callion		Project Manager: Ashton Thielke						
	Relinquished by: (Signature)						5/20/2024	5/28/2024	5/28/2024	5/28/2024	5/28/2024	720210216	5/28/2024	5/28/2024	5/28/2024	n Date	Co	Yes No NIA Ter		es No	Temp Blank:		MM	Eddy County, New Mexico	2337	Marquardt 1 Penn Federal #001 (04.04.24)	-8988	Midland, TX 79701	310 W Wall St Ste 500	Calliona resources	Resources	hielke						
	(Signature)												-			Time	Corrected Lemperature.	Temperature Reading:	Correction Factor:	Thermometer ID:)		ico Due Date:	□ Routine	100000												
						-	;	× >	× >	()	× >	<	×	×	×	Soil Water		10/	7	1/6	Wet ice.	< > >		ate: 72 hrs	■ R	Turn A	Email:	City, State ZIP	Addiess.	Address.	Company Name:	Bill to: (if different)						
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																									-	ANALTS												
There of	V VAVIII	Received by: (Signature)										\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					_			,					+	NAL YOU KEGUEST	ם פון	Deliverables: EDD	Reporting	State of Project:	Program:							
Not bed by	0	(Signature)													-													les: EDD	Reporting:Level II Level III	roject:	ST PRP	NIOAA	Mork			Work Order No:		
	No.															Sam		NaOH+Asc	Zn Acetate	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	ADaPT 🗆	□ST/UST □RRP		rownfields		rder Comments	Page		r No: Ho		
		Date/Time														Sample Comments		NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	JaSO ₃	IABIS		NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes	Other:	RP ∐Level IV ∐]	C Uperiuna			_1 of1	Pane	9 11 c	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1

Released to Imaging: 7/2/2024 3:00:58 PM



June 04, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARQUARDT 1 PENN FEDERAL #001 (04.04.24)

Enclosed are the results of analyses for samples received by the laboratory on 05/30/24 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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)

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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,

Mike Snyder For 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: 05/30/2024 Reported:

06/04/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/30/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS - 21 (2.0') (H243042-01)

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	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 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	128	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	216	108	200	3.83	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	218	109	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

05/30/2024

Sampling Date: 05/30/2024

Reported: Project Name:

Received:

BTEX 8021B

06/04/2024 MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Type: Soil

Project Number:

Sampling Condition: Sample Received By: Cool & Intact Alyssa Parras

2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 22 (2.0') (H243042-02)

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	112	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	216	108	200	3.83	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	218	109	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 3 of 31



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701

Fax To:

Received: 05/30/2024 Reported: 06/04/2024 Sampling Date: 05/30/2024 Sampling Type: Soil

Sample Received By:

Project Name:

Sampling Condition:

BTEX 8021B

MARQUARDT 1 PENN FEDERAL #001 (04

Cool & Intact Alyssa Parras

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 23 (2.5') (H243042-03)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	96.0	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	216	108	200	3.83	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	218	109	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	61.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.4	% 49.1-14	8						

Analyzed By: JH

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 4 of 31



Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported: 06/04/2024 Sampling Date: 05/30/2024
Sampling Type: Soil

Project Name:

BTEX 8021B

MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact

Project Number:

Sample Received By:

Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

2337

Sample ID: CS - 24 (2.5') (H243042-04)

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	112	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	216	108	200	3.83	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	218	109	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.5	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported: 06/04/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/30/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS - 25 (1.5') (H243042-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	224	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	216	108	200	3.83	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	218	109	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported: 06/04/2024 Sampling Date: 05/30/2024 Sampling Type:

Project Name:

MARQUARDT 1 PENN FEDERAL #001 (04

Soil

Project Number:

2337

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 26 (1.5') (H243042-06)

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	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	464	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported:

Sampling Date: 05/30/2024 Sampling Type: Soil

Project Name:

BTEX 8021B

06/04/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337 Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 27 (1.5') (H243042-07)

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	112	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported:

06/04/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition:

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/30/2024

Soil

Sample Received By:

Cool & Intact Alyssa Parras

Sample ID: CS - 28 (1.5') (H243042-08)

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	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported: 06/04/2024 Sampling Date: 05/30/2024 Sampling Type: Soil

Project Name:

BTEX 8021B

MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact

Project Number:

2337

Sample Received By: Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 29 (1.5') (H243042-09)

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	160	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported:

06/04/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/30/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS - 30 (2.0') (H243042-10)

BTEX 8021B

DIEX 6021B	ilig	/ kg	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	16.0	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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05/30/2024

Cool & Intact

Alyssa Parras

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported:

06/04/2024 Sampling Type: Soil

Sampling Date:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Project Number: 2337 Sample Received By:

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 31 (2.0') (H243042-11)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	32.0	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

.

05/30/2024 06/04/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Received:

Reported:

RTFY 8021R

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/30/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW - 16 (2.0') (H243042-12)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	224	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Applyzod By: 14

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Fax I

Received: 05/30/2024 Sampling Date: 05/30/2024

Reported: 06/04/2024 Sampling Type: Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition: Cool & Intact
Project Number: 2337 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 17 (2.0') (H243042-13)

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	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	224	16.0	06/04/2024	ND	416	104	400	3.77	QM-07
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Sampling Date: 05/30/2024

Reported: 06/04/2024 Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Type: Soil

Project Number: 2337 Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 18 (0.5') (H243042-14)

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	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	144	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported: 06/04/2024

06/04/2024 Samp MARQUARDT 1 PENN FEDERAL #001 (04 Samp

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/30/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW - 19 (2.5') (H243042-15)

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	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	80.0	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	72.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Sampling Date: 05/30/2024 Sampling Type:

Reported: Project Name: 06/04/2024

Soil

MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact

Project Number: 2337 Sample Received By: Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 20 (1.0') (H243042-16)

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	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	336	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701

Fax To:

Received: 05/30/2024 Reported: 06/04/2024 Sampling Date: 05/30/2024 Sampling Type: Soil

Project Name:

MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact

Project Number:

Sample Received By:

Alyssa Parras

2337 Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 21 (1.5') (H243042-17)

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	06/03/2024	ND	1.76	88.2	2.00	4.33	
Toluene*	<0.050	0.050	06/03/2024	ND	1.89	94.4	2.00	3.19	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.88	94.0	2.00	2.65	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.84	97.3	6.00	1.97	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	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	160	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	69.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.0	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701

Fax To:

Received: 05/30/2024 Reported: 06/04/2024 Sampling Date: 05/30/2024 Sampling Type:

Project Name:

BTEX 8021B

MARQUARDT 1 PENN FEDERAL #001 (04

Soil Cool & Intact

Project Number:

Sampling Condition: Sample Received By:

Alyssa Parras

2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 22 (1.5') (H243042-18)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 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	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Sampling Date: 05/30/2024

Reported: 06/04/2024 Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Type: Soil

Sampling Condition: Cool & Intact

Project Number: 2337 Sample Received By:

Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 23 (1.5') (H243042-19)

BTEX 8021B

DIEX 8021B	ilig	/ kg	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 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	128	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Analyzed By: JH

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported:

06/04/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/30/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: SW - 24 (1.5') (H243042-20)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 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	192	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	72.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701

Fax To:

Received: 05/30/2024 Reported:

Sampling Date: 05/30/2024 Soil

Project Name:

BTEX 8021B

06/04/2024 MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Type:

2337

Sampling Condition: Cool & Intact

Project Number:

Sample Received By:

Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 25 (1.5') (H243042-21)

DILX OUZID	iiig/	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 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	2680	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported:

06/04/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/30/2024

Soil Sampling Condition: Cool & Intact

Sample Received By:

Alyssa Parras

Sample ID: SW - 26 (1.5') (H243042-22)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 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	96.0	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701

Fax To:

Received: 05/30/2024 Reported:

Sampling Date: 05/30/2024 Sampling Type: Soil

Project Name:

06/04/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact

Project Number:

2337

Sample Received By: Alyssa Parras

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 27 (1.5') (H243042-23)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 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	112	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported: 06/04/2024 Sampling Date: 05/30/2024
Sampling Type: Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0²

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 28 (2.0') (H243042-24)

BTEX 8021B

BIEX 8021B	ilig/	ĸy	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 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	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

Analyzed By: JH

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Cool & Intact

Alyssa Parras

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported:

Sampling Date: 05/30/2024 06/04/2024 Sampling Type: Soil

Sampling Condition:

Sample Received By:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 29 (2.0') (H243042-25)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 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	32.0	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 05/30/2024 Reported: 06/04/2024 Sampling Date: 05/30/2024 Sampling Type: Soil

Project Name:

BTEX 8021B

MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact

Project Number:

Sample Received By:

Alyssa Parras

2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 30 (2.0') (H243042-26)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 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	16.0	16.0	06/04/2024	ND	416	104	400	3.77	
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	06/03/2024	ND	202	101	200	2.43	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	197	98.6	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	0						

Analyzed By: JH

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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.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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000			×	×	1	C	+	×		5/30/2024	(1.5')	CS-28 (1.5")
7			×	×	_	C		×		5/30/2024	(1.5')	CS-27 (1.5')
16			×	×	1	C		×		5/30/2024	(1.5')	CS-26 (1.5')
V			\vdash	×	_	C		×		5/30/2024	(1.5')	CS-25 (1.5')
7-5			×	×	_	C		×		5/30/2024	(2.5')	CS-24 (2.5')
			+	+	_	C		×		5/30/2024	(2.5')	CS-23 (2.5')
J.C.			+	+	_	0		×		5/30/2024	(2.0')	CS-22 (2.0')
>			+	+	_	C		×		5/30/2024	(2.0')	CS-21 (2.0')
Sample Comments			-	-	# of	Grab/ Comp	Water	Soil	Time	Date	itification	Sample Identification
				н 80				rature:	Corrected Temperature:			Total Containers:
NaOH+Ascorbic Acid: SAPC						C	ان	ding:	Temperature Reading:	NO N/A	Yes	Sample Custody Seals:
Zn Acetate+NaOH: Zn					,	7			Correction Factor:	N/A	Yes	Cooler Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃					Para	0	1,140		Thermometer ID:	No	Yes	Received Intact:
NaHSO: NABIS			4500)21B + DR	met	(No.		Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
				O +	ers							PO#:
H SO H NaOH Na				MRO						MM		Sampler's Name:
⊆				O)		72 hrs	72	Due Date:		Eddy County, New Mexico	Eddy Co	Project Location
			\dagger	+	Code	1	✓ Rush	Routine		2337		Project Number:
ervativ	ANALYSIS REQUEST	ANALYS		-	Pres.		Turn Around	Tu	01 (04.04.24)	nn Federal #0	Marquardt 1 Penn Federal #001 (04.04.24)	Project Name:
							==	Email:			432-813-8988	Phone:
Other						te ZIP:	City, State ZIP.			01	Midland, TX 79701	City, State ZIP:
PST/UST RRP Level IV] lavel						Address			te 500	310 W Wall St Ste 500	Address:
DIOMILIERO DE LA COMPANIA	State of Project:					Name:	Company Name:			rces	Carmona Resources	Company Name:
boundfields DBC boarfund	7 H		Kesource	Carmona Kesources		different)	Bill to: (if different)				Ashton Thielke	Project Manager:
Work Order Comments	Work Or											
Page1 of3_Page 29												
Work Order No: Hay 304 a of 3	Work Order											
		Y	stoc	of Cu	Chain of Custody	Ch						

											Page 2 of 3 Page
	· Li Thialk				Dill to: // different		Carmon	Carmona Resources	S	Work Order Comments	mments
Project Manager:	Ashton I hielke	G			Company Name	9.	0			Program: UST/PST ☐PRP ☐ rownfields	elds
Company Name:	Carriloria Resources	odices			Address.						ı
Address.	Midland TY 70701	0701			City State ZIP:					Reporting:Level II Level III Level III	ST RRP Level IV
City, State Air.	432-813-8988			Email:						Deliverables: EDD	Other:
Tiolia.	100000								ANAI VOIC DEC	TEST	Preservative Codes
Project Name:	Marquardt 1	Marquardt 1 Penn Federal #001 (04.04.24)	001 (04.04.24)	Turn	Turn Around	Pres.		-	ANALYSIS REQUEST		0.400
Project Number:		2337		Routine	✓ Rush	Code		+			
Project Location	Eddy	Eddy County, New Mexico	Mexico	Due Date:	72 hrs			D)			9
Sampler's Name:		MM						MR			H ₂ SO ₄ : H ₂ NaOH: Na
PO #:											J
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No	met	21B			Z .	NaHSO: NARIS
Received Intact:		Z	Thermometer ID:	a l	0/12/	Para	X 80	_		Z	Na ₂ S ₂ O ₃ : NaSO ₃
Cooler Custody Seals:		8	Correction Factor:	DT.			вте	M (G		Zr	Zn Acetate+NaOH: Zn
Sample Custody Seals:	als: Yes	NO N/A	Telliberature Meaning.	aulig.	2			_		Z.	NaOH+Ascorbic Acid: SAPC
Total Containers:	ntification	Date	Time S	Soil	Water Grab/	# of		TPH 8			Sample Comments
CS-31 (2 0')	(20")	5/30/2024		×	0		×	×			
SW-16 (2.0")	(2.0')	5/30/2024		×	0	1	×	×			12
SW-17 (2.0')	(2.0')	5/30/2024		×	0	1	×	×			3
SW-18 (0.5')	(0.5')	5/30/2024		×	0	1	×	\vdash			7
SW-19 (2.5')	(2.5')	5/30/2024		×	C	_	×	×			V
SW-20 (1.0')	(1.0')	5/30/2024		×	C	_	×	×			16
SW-21 (1.5')	(1.5')	5/30/2024		×	C	1	×	+			
SW-22 (1.5')	(1.5')	5/30/2024		×		1	×	+			0
SW-23 (1.5')	(1.5')	5/30/2024		×		1	×	×		li li	
SW-24 (1.5')	(1.5')	5/30/2024		×	0	1	×	×			20
Comments:						2					
									Re	Received by: (Signature)	Date/Time
		Relinquished	Relinquished by: (Signature)				Date/Time	me			

			•	Date! I IIII	,				Relinguished by (Signature)	on Deutshould	T.	//
Date/Time	Received by: (Signature)		D	ate/Tim								
												Comments:
				-			_					
			+	+		,	\dagger	,		0/30/2024	(2.0)	SW-30 (2.0)
<u>り</u>			×	×	_	2	+	<			(6.0)	67-AAO
25			×	×	_	0		×		5/30/2024	(20")	SM20 (2.0)
2			×	×	_	C		×		5/30/2024		SW-28 (2.0")
200			-	×	_	C		×		5/30/2024		SW-27 (1.5')
20			+	\vdash	_	C		×		5/30/2024		SW-26 (1.5')
2			+	+	_	0		×		5/30/2024		SW-25 (1.5')
Sample Comments			+-	+-	Cont Cont	Comp	Water	Soil	Time	Date	ntification	Sample Identification
				PH 8			1	rature:	Corrected Temperature:			Total Containers:
NaOH+Ascorbic Acid: SAPC				015		c	5	dirig.	l'emperature reading.	NA	ils: Yes No	Sample Custody Seals:
Zn Acetate+NaOH: Zn			Chlo			7	= ,	dip	Correction Factor.	N/A	Yes	Cooler Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃			oride			C	NAV.		Thermometer ID:	No	(I) (D)	Received Intact:
NaHSO ₄ : NABIS			450	021E		7 8	Yes	Wet ice:	Yes No		Te	SAMPLE RECEIPT
U			10	RO +	ters							PO #
H ₂ SO ₄ : H ₂ NaOH: Na				- MI						MIM		Sampler's Name:
				RO)		72 hrs	72	Due Date:		Eddy County, New Mexico	Eddy Co	Project Location
_			+	+	Code		☐ Kush	Routine		2337		Project Number:
None: NO DI Water H ₂ O	ANALTSIS REGOEST	ANALTS		-	Pres.			Tur	01 (04.04.24)	n Federal #0	Marquardt 1 Penn Federal #001 (04.04.24)	Project Name:
Drospryative Codes							-	Email:			432-813-8988	Phone:
ADaPT Other:	Deliverables: EDD						_				Midiand, IX /9/01	City, State ZIP:
ST/UST RRP Level IV	Reporting:Level II Level III					e ZIP:	City State ZIP				NEOL AL PUEDO	
							Address:			500	310 W Wall St Ste 500	
Frownfields KRC perfund	ST LPRP					Name:	Company Name:			ès	Carmona Resources	
5			Carmona Resources	armona r	C	different)	Bill to: (if different)				Ashton Thielke	Project Manager:
Work Order Comments	Work Ore				5							
Page 3 of 3												
No: Hayaya of S	Work Order											
31		<i>y</i>	0018	C	Chain of Custody	Cna						



June 05, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARQUARDT 1 PENN FEDERAL #001 (04.04.24)

Enclosed are the results of analyses for samples received by the laboratory on 06/03/24 15:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

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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,

Mike Snyder For 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: 06/03/2024 Reported: 06/05/2024

06/05/2024 MARQUARDT 1 PENN FEDERAL #001 (0⁴

Project Name: MARC Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS-32 (2.0') (H243117-01)

DTEV 0021D

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	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 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	16.0	16.0	06/04/2024	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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Sampling Date: 05/31/2024 Sampling Type:

Sampling Condition:

Sample Received By:

Reported: Project Name:

BTEX 8021B

06/05/2024

Soil

MARQUARDT 1 PENN FEDERAL #001 (04

Cool & Intact Tamara Oldaker

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS-33 (2.0') (H243117-02)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.1	% 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	160	16.0	06/04/2024	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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported:

06/05/2024 Sampling Type: Soil

Sampling Date:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

05/31/2024

Sample ID: CS-34 (2.0') (H243117-03)

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	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.8	% 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	192	16.0	06/04/2024	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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

06/05/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS-35 (2.0') (H243117-04)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.6	% 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	176	16.0	06/04/2024	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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	82.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

06/05/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS-36 (2.5') (H243117-05)

BTEX 8021B

DIEX 8021B	ilig	rky .	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.4	% 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	304	16.0	06/04/2024	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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

06/05/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS-37 (2.5') (H243117-06)

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.6	% 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	368	16.0	06/04/2024	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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Analyzed By: JH

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Me Sough



05/31/2024

Cool & Intact

Soil

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported:

06/05/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition:

Sampling Date:

Project Name:

Project Number: 2337 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS-38 (2.5') (H243117-07)

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	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.0	% 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	160	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	72.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

06/05/2024 SMARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS-39 (2.5') (H243117-08)

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.3	% 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	304	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Analyzed By: 14

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

06/05/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS-40 (2.5') (H243117-09)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.9	% 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	16.0	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported:

06/05/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW-31 (2.0') (H243117-10)

BTEX 8021B	3, 3		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.7	% 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	304	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW-32 (2.5') (H243117-11)

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.3	% 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	240	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW-33 (2.5') (H243117-12)

BTEX 8021B	3, 3		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.4	% 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	304	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	6 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

06/05/2024 MARQUARDT 1 PENN FEDERAL #001 (0⁴

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW-34 (2.5') (H243117-13)

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	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.8	% 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	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported:

06/05/2024 Sampling Type:

Sampling Date:

Sample Received By:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Soil Sampling Condition: Cool & Intact

05/31/2024

Tamara Oldaker

Sample ID: SW-35 (2.5') (H243117-14)

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	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	< 0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.2 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	96.0	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	92.7 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	6 49 1-14	8						

113 % Surrogate: 1-Chlorooctadecane 49.1-148

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

06/05/2024 MARQUARDT 1 PENN FEDERAL #001 (0²

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW-36 (2.5') (H243117-15)

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	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.9	% 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	176	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/05/2024

MARQUARDT 1 PENN FEDERAL #001 (0²

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 05/31/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW-37 (2.5') (H243117-16)

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	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 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	80.0	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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05/31/2024

Soil

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported:

06/05/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Date:

Project Name:

Sampling Condition: Cool & Intact Project Number: 2337 Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW-38 (0.5') (H243117-17)

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	06/04/2024	ND	1.81	90.7	2.00	6.28	
Toluene*	<0.050	0.050	06/04/2024	ND	1.85	92.7	2.00	2.47	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	1.92	95.9	2.00	2.94	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.72	95.3	6.00	3.04	
Total BTEX	<0.300	0.300	06/04/2024	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	160	16.0	06/04/2024	ND	432	108	400	3.64	
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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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05/31/2024

Soil

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024

Sampling Date:
Sampling Type:

Reported: 06/05/2024 Project Name: MARQUARD

MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition: Cool & Intact
2337 Sample Received By: Tamara Oldaker

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW-39 (2.5') (H243117-18)

RTFY 8021R

Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD	BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Toluene* < 0.050 0.050 06/04/2024 ND 1.85 92.7 2.00 2.47 Ethylbenzene* < 0.050 0.050 06/04/2024 ND 1.92 95.9 2.00 2.94 Total Xylenes* < 0.150 0.150 06/04/2024 ND 5.72 95.3 6.00 3.04 Total BTEX < 0.300 0.300 06/04/2024 ND 5.72 95.3 6.00 3.04 Surrogate: 4-Bromofluorobenzene (PID 110 % 71.5-134 Chloride, SM450OCl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD Chloride 96.0 16.0 06/04/2024 ND 432 108 400 3.64 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD GRO C6-C10* < 10.0 10.0 06/04/2024 ND 197 98.6 200 4.41 DRO >C10-C28* < 10.0 10.0 06/04/2024 ND 184 92.1 200 0.634 EXT DRO >C28-C36 < 10.0 10.0 06/04/2024 ND Surrogate: 1-Chlorooctane 91.8 % 48.2-134	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 06/04/2024 ND 1.92 95.9 2.00 2.94 Total Xylenes* <0.150 0.150 06/04/2024 ND 5.72 95.3 6.00 3.04 Total BTEX <0.300 0.300 06/04/2024 ND Surrogate: 4-Bromofluorobenzene (PID 110 % 71.5-134 Chloride, SM4500Cl-B mg/ky Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Analyzed By: MS Chloride 96.0 16.0 06/04/2024 ND 432 108 400 3.64 TH 8015M mg/ky Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 06/04/2024 ND 197 98.6 200 4.41 DRO >C10-C28* <10.0 10.0 06/04/2024 ND 184 92.1 200 0.634 EXT DRO >C28-C36 <10.0 10.0 06/04/2024 ND 184 92.1 200 0.634 EXT DRO >C28-C36 <10.0 10.0 06/04/2024 ND	Benzene*	<0.050	0.050	06/04/2024	ND	1.81	90.7	2.00	6.28	
Total Xylenes* <0.150 0.150 06/04/2024 ND 5.72 95.3 6.00 3.04 Total BTEX <0.300	Toluene*	<0.050	0.050	06/04/2024	ND	1.85	92.7	2.00	2.47	
Total BTEX <0.300 0.300 06/04/2024 ND Surrogate: 4-Bromofluorobenzene (PID 110 % 71.5-134 Chloride, SM4500Cl-B mg/ky Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 96.0 16.0 06/04/2024 ND 432 108 400 3.64 TPH 8015M mg/ky Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 06/04/2024 ND 197 98.6 200 4.41 DRO >C10-C28* <10.0 10.0 06/04/2024 ND 184 92.1 200 0.634 EXT DRO >C28-C36 <10.0 48.2-134 48.2-134 VI VI VI VI VI VI VI VI VI VI <td>Ethylbenzene*</td> <td><0.050</td> <td>0.050</td> <td>06/04/2024</td> <td>ND</td> <td>1.92</td> <td>95.9</td> <td>2.00</td> <td>2.94</td> <td></td>	Ethylbenzene*	<0.050	0.050	06/04/2024	ND	1.92	95.9	2.00	2.94	
Surrogate: 4-Bromofluorobenzene (PID 110 % 71.5-134 Chloride, SM4500Cl-B mg/ky Analyzed By: HM Method Blank BS % Recovery True Value QC RPD Chloride 96.0 16.0 06/04/2024 ND 432 108 400 3.64 TPH 8015M mg/ky Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.72	95.3	6.00	3.04	
Chloride, SM4500Cl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 96.0 16.0 06/04/2024 ND 432 108 400 3.64 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Total BTEX	<0.300	0.300	06/04/2024	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 96.0 16.0 06/04/2024 ND 432 108 400 3.64 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 06/04/2024 ND 197 98.6 200 4.41 DRO >C10-C28* <10.0 10.0 06/04/2024 ND 184 92.1 200 0.634 EXT DRO >C28-C36 <10.0 10.0 06/04/2024 ND Surrogate: 1-Chlorooctane 91.8 % 48.2-134	Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride 96.0 16.0 06/04/2024 ND 432 108 400 3.64 TPH 8015M mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
TPH 8015M mg/s Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 06/04/2024 ND 197 98.6 200 4.41 DRO >C10-C28* <10.0 10.0 06/04/2024 ND 184 92.1 200 0.634 EXT DRO >C28-C36 <10.0 10.0 06/04/2024 ND Surrogate: 1-Chlorooctane 91.8 % 48.2-134	Chloride	96.0	16.0	06/04/2024	ND	432	108	400	3.64	
GRO C6-C10* <10.0 10.0 06/04/2024 ND 197 98.6 200 4.41 DRO >C10-C28* <10.0 10.0 06/04/2024 ND 184 92.1 200 0.634 EXT DRO >C28-C36 <10.0 10.0 06/04/2024 ND Surrogate: 1-Chlorooctane 91.8% 48.2-134	TPH 8015M	mg	/kg	Analyze	ed By: MS					
DRO >C10-C28* < 10.0 10.0 06/04/2024 ND 184 92.1 200 0.634 EXT DRO >C28-C36 <10.0 10.0 06/04/2024 ND Surrogate: 1-Chlorooctane 91.8 % 48.2-134	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 06/04/2024 ND Surrogate: 1-Chlorooctane 91.8 % 48.2-134	GRO C6-C10*	<10.0	10.0	06/04/2024	ND	197	98.6	200	4.41	
Surrogate: 1-Chlorooctane 91.8 % 48.2-134	DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
	EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctadecane 112 % 49.1-148	Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
	Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Analyzed By: 14

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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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 20 of 22

	Comments:	0.2) (2.0)	SW-31 (2.0)	CS-A0 (2.5)	CS-30 (2.5)	CS-38 (2.5)	CS-37 (2.5)	CS 36 (2.U)	05-25 (2.0)	CS-34 (2.0)	CS 33 (2 0")	CS 32 /2 01	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #	Sampler's Name:	Project Location	Project Number:	Project Name: Marqu	Phone: 432-81	ate ZIP:		Name:				
Sol Version	Relinguished by: (Signature)	6/3/2024	American		6/3/2024	6/3/2024	6/3/2024 //	6/3/2024	6/3/2024 //	6/3/2024	6/3/2024 5/3/	Date		les NO (N/A) lemp	No No	A		Temp Blank:		GP	Eddy County, New Mexico	2337	Marquardt 1 Penn Federal #001 (04.04.24)	432-813-8988	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Asilion Tillelke			
maure)	nature)	×	×	×	×	×	×	×	×	×	124 R)	Time Soil	Corrected Lemperature:	emperature Reading:	Tomoral actor.	ection Eactor:	neter ID:	Yes No Wettre				□ Routine		Email:							
		C 1	C 1	0	О	С	С	С	С	С		Water Comp C		ز			0 2			8 12 18	3		Turn Around		City, State ZIP:	Address:	Company Name:	Bill to: (if different)			Ch
Date/Time		×	× × ×	× ×	× × ×	^ × ×	× × ×	×		^ × ×	^ × ×	#of	PH 801	15M	(GI	(80 RO	21B + DF 4500	? O+))	Code	Pres.						Carmona Resources			Chain of Custody
	-																					ANALYSIS						Xès .			dy
Received by:/Signature)																						ANALYSIS REQUEST		Deliverables: EDD Apart Coloos	Reporting: evel	State of Project:	Program: LICT/DCT DDD	Work O		Work Order No:	
Date/Time (1.8-2) 1548				3								Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Aretatet Naous	Na ₃ S ₃ O ₃ : Na ₃ SO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP			Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	Other:	Г		rownfields RC Iperfund	ents		2	No: 134317 210	100

Chain of Custody

) Constitutions			Bill to: (if different)		Carmona	Carmona Resources	· ·	Work Order Comments	
Company Name: Carm	Carmona Resources			Company Name:					IIISTIBET DED DES COMMENTS	ב
Address: 310 V	310 W Wall St Ste 500			Address:				State of Project:	State of Project:	perfund
City, State ZIP: Midla	Midland, TX 79701			City, State ZIP:					Reporting:Level III PST/IIST DBB	
Phone: 432-8	432-813-8988		Email:					Deliverables: EDD	☐ ADaPT ☐	
Project Name: Marc	Marquardt 1 Penn Federal #001 (04.04.24)	#001 (04.04.24)	Turn	Turn Around				ANAL YEIS DITCHES	333	
Project Number:	2337		Routine	☑ Rush	Pres.		-	ANAL ISIS REQUISI	Preserva	Preservative Codes
Project Location	Eddy County, New Mexico	/ Mexico	Due Date:	72 hrs	Code				None: NO	DI Water: H ₂ O
Sampler's Name:	GP					0)			Cool: Cool	MeOH: Me
PO #:						MR			HCL: HC	HNO ₃ : HN
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Vos No	ters				H ₂ S0 ₄ : H ₂	NaOH: Na
Received Intact:	No No				ame	021E + DI	450		H₃PO₄: HP	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	9.	1	Par				NaHSO ₄ : NABIS	S
Sample Custody Seals:	Yes No NIA	Temperature Reading:	eading:	0)		ВТ 5М ((Zn Acetate+NaOH: Zn)3)3
		Corrected Temperature:	erature:			1 80·			NaOH+Ascorbic Acid: SAPC	: Acid: SAPC
Sample Identification	on Date	Time	Soil	Water Grab/	# of	TPI			Sample C	ommonto
SW-32 (2.5')	6/3/2024	5/51/24 ap	×	C	_	×	×		- Carlibra	campic Comments
SW-33 (2.5')	6/3/2024	- 1	×	C	_	+	+			
SW-34 (2.5')	6/3/2024	11	×	C	_	+	+			
SW-35 (2.5')	6/3/2024	11	×	0	_	+				
SW-36 (2.5')	6/3/2024	11	×	C	_	+	+			
SW-37 (2.5')	6/8/2024	11	×	C	_	+	+			
SW-38 (0.5')	6/3/2024	11	×	C	_	×	+			
SVV-39 (2.5')	./ 6/3/2024	11	×	С		×	×			
				+			1			
omments:										
							Æ		e i	
	Relinquished by: (Signature)	ру: (Signature)				Date/Time		Received by: (3)gi	(Signature) Date	Date/Time
								98		1 24

Page 22 of 22

Work Order No:



June 04, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARQUARDT 1 PENN FEDERAL #001 (04.04.24)

Enclosed are the results of analyses for samples received by the laboratory on 06/03/24 15:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

Wite Sough

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,

Mike Snyder For 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: 06/03/2024 Reported: 06/04/2024

Project Name: Project Number: 2337

Project Location:

MARQUARDT 1 PENN FEDERAL #001 (04

EDDY COUNTY, NEW MEXICO

Sampling Date: 06/03/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: CS-41 (1.5') (H243118-01)

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	06/04/2024	ND	1.87	93.4	2.00	3.26	
Toluene*	<0.050	0.050	06/04/2024	ND	1.84	92.0	2.00	2.71	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	1.86	93.1	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.40	90.1	6.00	2.10	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.3	% 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	80.0	16.0	06/04/2024	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	06/03/2024	ND	200	100	200	2.51	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	198	99.1	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/04/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/03/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS-42 (1.5') (H243118-02)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	1.87	93.4	2.00	3.26	
Toluene*	<0.050	0.050	06/04/2024	ND	1.84	92.0	2.00	2.71	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	1.86	93.1	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.40	90.1	6.00	2.10	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	84.8	% 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	64.0	16.0	06/04/2024	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	06/03/2024	ND	200	100	200	2.51	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	198	99.1	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/04/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/03/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: CS-43 (1.5') (H243118-03)

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	06/04/2024	ND	1.87	93.4	2.00	3.26	
Toluene*	<0.050	0.050	06/04/2024	ND	1.84	92.0	2.00	2.71	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	1.86	93.1	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.40	90.1	6.00	2.10	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.6	% 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	112	16.0	06/04/2024	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	06/03/2024	ND	200	100	200	2.51	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	198	99.1	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/03/2024 Reported: 06/04/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/03/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW-40 (1.5') (H243118-04)

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	06/04/2024	ND	1.87	93.4	2.00	3.26	
Toluene*	<0.050	0.050	06/04/2024	ND	1.84	92.0	2.00	2.71	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	1.86	93.1	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.40	90.1	6.00	2.10	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	83.5	% 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	06/04/2024	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	06/03/2024	ND	200	100	200	2.51	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	198	99.1	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.7	% 49.1-14	8						

Analyzed By: 14

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 6 of 7

	mments:				SVV-40 (1.5')	CS-43 (1.5')	CS-42 (1.5')	CS-41 (1.5")	Sample Identification	al Containers:	mple Custody Seals:	oler Custody Seals:	ceived Intact:	MPLE RECEIPT	#	mpler's Name:	piect Location	ň	ject Name:	one:	y, State ZIP:	dress:	mpany Name:	ject Manager:			
Reling											Yes No	Yes No	Xes No	Temp Blank:		G	Eddy Coun		Marquardt 1 Penn Federal #001 (04.04.24)	432-813-8988	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Ashton Thielke			
Relinquished by: (Signature)					6/3/2024	6/3/2024	6/3/2024	6/3/2024	Date T	Correc	N/A Tempe					GP/MM	ty New Mexico	2337	ederal #001 (0			500	S				
lature)									Time	Corrected Temperature	Temperature Reading:	Correction Factor:	ē	Yes Mo W		Due Date.		☐ Routine	4.04.24)								
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Date/Time									Sample Comments	NaOH+Ascorbic Acid: SAPC	NaOH: Zn	SO ₃	5	NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes		. :	P Level IV	C Liberium			of.	NA PARTIES	
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June 06, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARQUARDT 1 PENN FEDERAL #001 (04.04.24)

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 15:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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)

Wite Sough

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,

Mike Snyder For 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: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 44 (2.0') (H243158-01)

BTEX 8021B

DILX 6021D	ilig	/ Ng	Allalyze	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.5	% 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	64.0	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 45 (2.0') (H243158-02)

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.5	% 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	368	16.0	06/06/2024	ND	416	104	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 Sampling Ty MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Co

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 46 (0.5') (H243158-03)

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.3	% 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	464	16.0	06/06/2024	ND	416	104	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	78.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (0²

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 47 (0.5') (H243158-04)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/06/2024	ND	416	104	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: CS - 48 (0.5') (H243158-05)

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	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.69	6 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	96.0	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	110 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 %	6 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition:

Applyzod By: 14

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0² Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/04/2024

Soil Cool & Ir

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 49 (0.5') (H243158-06)

RTFY 8021R

Result < 0.050	Reporting Limit 0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050				70 INCCOVERY	True value qe	KFD	Qualifier
<0.050		06/05/2024	ND	2.00	99.8	2.00	1.39	
~0.030	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
<0.300	0.300	06/05/2024	ND					
89.6	% 71.5-13	4						
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
96.0	16.0	06/06/2024	ND	416	104	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/05/2024	ND	236	118	200	4.21	
<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
<10.0	10.0	06/05/2024	ND					
104	% 48.2-13	4						
104	% 49.1-14	8						
	<0.150 <0.300 89.6 mg/ Result 96.0 mg/ Result <10.0 <10.0 104 9	<0.050 0.050 <0.150 0.150 <0.300 0.300 89.6 % 71.5-13 mg/ky Result Reporting Limit 96.0 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Shalyn Rodriguez Sample Received By:

Sample ID: CS - 50 (0.5') (H243158-07)

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	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 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	192	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Shalyn Rodriguez Sample Received By:

Sample ID: CS - 51 (0.5') (H243158-08)

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	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	< 0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.6	% 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	64.0	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	111 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	6 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 52 (0.5') (H243158-09)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7 % 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	112	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.7	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 53 (0.5') (H243158-10)

BTEX 8021B

DILX GOZID	11197	K9	Alldiyzo	a by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.6 % 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	96.0	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	73.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.3	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/04/2024 Sampling Date: 06/04/2024 06/06/2024 Sampling Type: Soil MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Cool & Intact

Project Number: MAR

Project Number: 2337 Sample Received By: Shalyn Rodriguez

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 54 (0.5') (H243158-11)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2 % 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	80.0	16.0	06/06/2024	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	06/06/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024 Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: CS - 55 (0.5') (H243158-12)

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	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.3	% 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	64.0	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	61.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	59.6	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Shalyn Rodriguez Sample Received By:

Sample ID: CS - 56 (0.5') (H243158-13)

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	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7	% 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	464	16.0	06/06/2024	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	06/06/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 57 (0.5') (H243158-14)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7	% 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	480	16.0	06/06/2024	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	06/06/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Applyzod By: 14

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06/04/2024

Cool & Intact

Shalyn Rodriguez

Soil

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition:

Analyzed By: JH

Sampling Date:

Sample Received By:

Project Number: 2337

Project Name:

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sample ID: CS - 58 (0.5') (H243158-15)

	9/	9	7	7: - 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.1	% 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	192	16.0	06/06/2024	ND	432	108	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Fax

Received: 06/04/2024 Sampling Date: 06/04/2024

Reported: 06/06/2024 Sampling Type: Soil Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Coo

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition: Cool & Intact
Project Number: 2337 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sample ID: CS - 59 (0.5') (H243158-16)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8 % 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	128	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024

Sampling Date: 06/04/2024

Reported: 06/06/2024 Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Type: Soil

Project Number: 2337

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 60 (0.5') (H243158-17)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.7	% 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	48.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

Analyzed By: JH

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (04

Applyzod By: 14

Project Name: Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Soil Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Shalyn Rodriguez

06/04/2024

Sample ID: CS - 61 (0.5') (H243158-18)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.8	% 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	128	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

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06/04/2024

Cool & Intact

Soil

Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 Sampling Type:
MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition:

Analyzed By: JH

Sampling Date:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0² Project Number: 2337

Project Number: 2337 Sample Received By: Shalyn Rodriguez

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sample ID: CS - 62 (0.5') (H243158-19)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 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	160	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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06/04/2024

Soil

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 Sampling Type:

Sampling Date:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 2337 Sample Received By:

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sample ID: CS - 63 (0.5') (H243158-20)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 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	32.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	107 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 Sampling Typ MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Con

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 64 (0.5') (H243158-21)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	48.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 Sampling Type: Soil

Sampling Date:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

06/04/2024

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 65 (0.5') (H243158-22)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	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	80.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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06/04/2024

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 Sampling Type: Soil Cool & Intact

Sampling Date:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Shalyn Rodriguez Project Number: 2337 Sample Received By:

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 66 (0.5') (H243158-23)

BTEX 8021B

BIEX 8021B	ilig/	ky	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	32.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024 Sampling Date: 06/04/2024 Sampling Type: Soil

Project Name:

BTEX 8021B

06/06/2024 Sampling Type: Soi MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition: Con

Project Number: 2337

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sample ID: CS - 67 (0.5') (H243158-24)

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	48.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 Sampling Type: MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition:

Project Name: MARG Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/04/2024
Sampling Type: Soil

Sample Received By:

Cool & Intact Shalyn Rodriguez

Sample ID: CS - 68 (0.5') (H243158-25)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	48.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Mr. Songh



Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Name: Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Shalyn Rodriguez Sample Received By:

Sample ID: SW - 41 (2.0') (H243158-26)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	208	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

 06/04/2024
 Sampling Date:
 06/04/2024

 06/06/2024
 Sampling Type:
 Soil

Project Name: MARQUARDT 1 PENN FEDERAL #001 (0² Project Number: 2337

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 42 (1.5') (H243158-27)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	384	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.9	% 49.1-14	8						

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06/04/2024

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 Sampling Type: Soil

Sampling Date:

Project Name: Project Number:

MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Cool & Intact 2337 Sample Received By: Shalyn Rodriguez

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 43 (0.5') (H243158-28)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	64.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Shalyn Rodriguez Sample Received By:

Sample ID: SW - 44 (0.5') (H243158-29)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	64.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Fax To

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 45 (0.5') (H243158-30)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	64.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Shalyn Rodriguez Sample Received By:

Sample ID: SW - 46 (0.5') (H243158-31)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	64.0	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	76.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

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06/04/2024

Soil

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701

Fax To:

Received: 06/04/2024 Reported:

06/06/2024 Sampling Type:

Project Name: Project Number: 2337

MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sampling Date:

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 47 (0.5') (H243158-32)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	432	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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06/04/2024

Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 Sampling Type: Soil

Sampling Date:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact Project Number: Shalyn Rodriguez 2337 Sample Received By:

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: SW - 48 (0.5') (H243158-33)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 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	240	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	85.2 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 %	6 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES **ASHTON THIELKE** 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Shalyn Rodriguez Sample Received By:

Sample ID: SW - 49 (0.5') (H243158-34)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 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	224	16.0	06/06/2024	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	06/05/2024	ND	219	109	200	2.98	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	107	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 Sampling Type:
MARQUARDT 1 PENN FEDERAL #001 (0² Sampling Condition:

Applyzod By: 14

Project Number: 2337

Project Name:

RTFY 8021R

Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 06/04/2024 Sampling Type: Soil

Sample Received By:

Cool & Intact Shalyn Rodriguez

Sample ID: SW - 50 (0.5') (H243158-35)

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	06/05/2024	ND	2.04	102	2.00	1.71	
Toluene*	<0.050	0.050	06/05/2024	ND	2.14	107	2.00	0.969	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	2.11	106	2.00	0.982	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	6.44	107	6.00	1.22	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	128	16.0	06/06/2024	ND	416	104	400	3.77	
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	06/05/2024	ND	210	105	200	0.674	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	231	115	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Um	/		S-53 (0.5")	S-52 (0.5')	C 54 (0.5)	S-49 (0.5')	S-48 (0.5')	S-47 (0.5')	CS-46 (0.5')	CS-45 (2.0")	CS-44 (2.0°)	le Ident	ners:	tody Seals:	ody Seals:	act	RECEIPT		ame:	tion	ber:	io.		I.P.		ame:	lager:	
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	Relinquished by: (Signature)											Time	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes (No			v Mexico		Marquardt 1 Penn Federal #001 (04.04.24)						
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Date/ Illie	Tato/Tim											Comme	c Acid: S	OH: Zn	<i>y</i>	S	NaOn. Na	NaOH: Na	MeOH: Me	DI Water: H ₂ O	alive CO			Level IV			- - -	
ā												nts	APC				Na	NH	Me	iter: H	des			el IV		perfund		(L)

Company Name

Ashton Thielke
Carmona Resources
310 W Wall St Ste 500

Bill to: (if different)
Company Name:

Carmona Resources

State of Project:

Program: UST/PST PRP rownfields RC

perfund

Work Order Comments

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Chain of Custody

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Page 39 of 41

1		comments:	CS-63 (0.5')	CS-62 (0.5')	CS-61 (0.5')	CS-60 (0.5')	CS-59 (0.5')	CS-58 (0.5)	CS-57 (0.5')	CS-56 (0.5')	CS-55 (0.5')	CS-54 (0.5')	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location	Project Number:			ale LIF.	
1	Reling								*				fication		s: Yes (No	Yes (Na	TO THE	Temp Blank:		_	Eddy Cou		Marquardt 1 Penn Federal #001 (04.04.24)	432-613-8988	Wildiand, 1X /9/01	אחלים אד בייון ייי
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	signature)			¥									Time	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes (No			xico		1 (04.04.24)			
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	Da												Sample C	+Ascorbic	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : Na ₂ SO ₃	O · NIABIC	. 112	- 7		2	NO	Dreservat	Other:	RRP	
	Date/Time	4											Sample Comments	NaOH+Ascorbic Acid: SAPC	H: 7n			NaOH: Na	HNO3: HN	MECH. ME	Moon in	e: NO DI Water: H ₂ O	ive Codes		Level IV	

ived by C	CL	D: 6/	/21/202		:41		AM	3	3	8	E	3	32	2	CONTRACTO	00000 T		60.1									_					- 30	Page	2
		1	***************************************	Comments:	SW-45 (0.5')	SW-44 (0.5')	SW-43 (0.5')	SW-42 (1.5')	SW-41 (2.0")	CS-68 (0.5')	CS-67 (0.5')	CS-66 (0.5')	CS-65 (0.5')	CS-64 (0.5')	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:	City, State ZIP:	Address:	Company Name:	Project Manager:			
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	Relinquished by: (Signature)				6/4/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024	Date		V		Yes (No) N/A	Yes No	Temp Blank:		MM/GP	Eddy County, New Mexico	2337	Penn Federal		9701	t Ste 500	sources	(e	* =		
	: (Signature)														Time		Corrected Temperature	Temperature P	Correction Factor	Thermometer ID:	Yes No			Mexico		Marquardt 1 Penn Federal #001 (04.04.24)								
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Ca	Dat														Sample Comments	Ascorbic A	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	HP					ervati		-3	RRP	, RC	Ins	ge3_	è '	SMZ	
	Date/Time														mments	NaOH+Ascorbic Acid: SAPC	: Zn				NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ U	Preservative Codes			Levelly	pertund	-	악		80	
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Chain of Custody

SAMPLE RECEIPT Phone: ampler's Name: City, State ZIP: \ddress: roject Manager Company Name roject Number roject Name: oject Location nple Custody Seals ler Custody Seals: Sample Identification SW-50 (0.5') SW-49 (0.5') SW-48 (0.5') SW-47 (0.5') SW-46 (0.5') 310 W Wall St Ste 500 Marquardt 1 Penn Federal #001 (04.04.24) Midland, TX 79701 Carmona Resources Ashton Thielke Eddy County, New Mexico Yes (No N/A Yes (No) N/A Yes No Temp Blank: Relinquished by: (Signature) 6/4/2024 6/4/2024 6/4/2024 6/4/2024 6/4/2024 MM/GP Date 2337 Correction Factor: Corrected Temperature emperature Reading Thermometer ID: Yes No Time Due Date: □ Routine Wet Ice: Soil × × × × × Email: Turn Around WW Sh Water 9 Rush Rush City, State ZIP Bill to: (if different) Company Name: Yes 72 hrs 300 Comp Grab/ 0 C C 0 0 # of Pres. Code **Parameters** Date/Time × × × × × Carmona Resources BTEX 8021B 75 × × × TPH 8015M (GRO + DRO + MRO) × × × × × × Chloride 4500 ANALYSIS REQUEST Received by: (Signature) Deliverables: EDD Reporting:Level II Level III PST/UST Program: UST/PST PRP rownfields RC State of Project: Work Order No: 120 3/58 **Work Order Comments** ADaPT 🗆 H₂S0₄: H₂ NaOH+Ascorbic Acid: SAPC HCL: HC Na₂S₂O₃: NaSO₃ H₃PO₄: HP Zn Acetate+NaOH: Zn NaHSO₄: NABIS Cool: Cool None: NO Page_ Sample Comments **Preservative Codes** RRP Other: Date/Time DI Water: H₂O NaOH: Na HNO3: HN MeOH: Me Level IV perfund of Page 41 of 41



June 10, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARQUARDT 1 PENN FEDERAL #001 (04.04.24)

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 15:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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. Keine

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:

06/07/2024 Received: Reported:

Sampling Type: 06/10/2024 Sampling Condition:

Project Name: MARQUARDT 1 PENN FEDERAL #001 (04 Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: Soil

Sample Received By:

Cool & Intact Alyssa Parras

06/07/2024

Sample ID: CS - 70 (0.5-0.75') (H243289-01)

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	06/07/2024	ND	1.86	92.8	2.00	11.2	
Toluene*	<0.050	0.050	06/07/2024	ND	1.84	92.0	2.00	10.5	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.84	92.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.48	91.4	6.00	9.88	
Total BTEX	<0.300	0.300	06/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	06/10/2024	ND	432	108	400	3.77	
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	06/08/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine

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: 06/07/2024 Reported:

Sampling Date: 06/07/2024 Soil

Project Name:

06/10/2024

Sampling Type:

MARQUARDT 1 PENN FEDERAL #001 (04

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Number: 2337

Project Location: EDDY COUNTY, NEW MEXICO

Sample ID: CS - 71 (0.5-0.75') (H243289-02)

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	06/07/2024	ND	1.86	92.8	2.00	11.2	
Toluene*	<0.050	0.050	06/07/2024	ND	1.84	92.0	2.00	10.5	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.84	92.2	2.00	9.75	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.48	91.4	6.00	9.88	
Total BTEX	<0.300	0.300	06/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	06/10/2024	ND	432	108	400	3.77	
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	06/08/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					
Surrogate: 1-Chlorooctane	71.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg & Frence

Celey D. Keene, Lab Director/Quality Manager

Ashton Thielke Carmona Resources

Bill to: (if different) Company Name:

Carmona Resources

Work Order Comments

of

Chain of Custody

Work Order No:
1/248289

Miranda		e ·	Comments:				CS-71 (0.5 - 0.75')	CS-70 (0.5 - 0.75')	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:	City, State ZIP:	Address:	Company Name:
la Milwee	R						- 0.75')	- 0.75')	tification		Yes	Yes	(Yes)				Eddy C		Marquardt 1 Penn Federal #001 (04.04.24)	432-813-8988	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources
	elinquished b						6/7/2024	6/7/2024	Date		No N/A	N/A	No	Temp Blank:		MM	Eddy County, New Mexico	2337	nn Federal #		01	te 500	rces
	Relinquished by: (Signature)								Time	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No)			/lexico		001 (04.04.24				
					T.V.		×	×	Soil	perature:	eading:	tor:	D:	Wet Ice:			Due Date:	□ Routine		Email:			
		-							Water C.	ı	4.2	1	041	Yes No			24 Hrs	☑ Rush	Turn Around	#	City, State ZIP	Address:	Company Name:
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								8	Sample Comments	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 ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preservative Codes	ADaPT Other:	ST/UST RRP		ownfields RC
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June 06, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MARQUARDT 1 PENN FEDERAL #001 (04.04.24)

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 15:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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)

Wite Sough

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,

Mike Snyder For 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: 06/04/2024 Reported: 06/06/2024

MARQUARDT 1 PENN FEDERAL #001 (04

Project Number: 2337

Project Name:

Project Location: EDDY COUNTY, NEW MEXICO Sampling Date: 06/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: STOCKPILE COMPOSITE #1 (H243157-01)

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	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	85.8	% 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	48.0	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 06/04/2024 Reported: 06/06/2024

06/06/2024 Sampling Type:
MARQUARDT 1 PENN FEDERAL #001 (04 Sampling Condition:

Analyzed By: JH

Project Name: MARG Project Number: 2337

BTEX 8021B

Project Location: EDDY COUNTY, NEW MEXICO

mg/kg

Sampling Date: 06/04/2024

Sample Received By:

Soil

Cool & Intact Shalyn Rodriguez

Sample ID: STOCKPILE COMPOSITE #2 (H243157-02)

DILX GOZID	1119/	ng .	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2024	ND	2.00	99.8	2.00	1.39	
Toluene*	<0.050	0.050	06/05/2024	ND	1.96	98.0	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.99	99.3	2.00	0.772	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.78	96.4	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.2	% 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	64.0	16.0	06/06/2024	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	06/05/2024	ND	236	118	200	4.21	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	238	119	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

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Mr. Sough



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Mr. Songh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

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

QUESTIONS

Action 356578

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	356578
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409950483
Incident Name	NAPP2409950483 MARQUARDT 1 PENN FED 1 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Marquardt 1 Penn Fed 1
Date Release Discovered	04/04/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	Yes
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 f	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: Human Error Pipeline (Any) Produced Water Released: 100 BBL Recovered: 0 BBL Lost: 100 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)	This release was caused by a third party contractor, (Tactical Water Group) severing a produced water pipeline, while performing work for another Operator, (Select Energy Services). Blackbuck Resources, nor its facilities, equipment, contractors, or personnel were the cause of this release.

District III

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

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

QUESTIONS, Page 2

Action 356578

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 3, 1411 37 333
QUESTI	ONS (continued)
Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID: 373619 Action Number: 356578 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (d) substantially damages property or the environment.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	I ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Adrienne Tovar Email: adrienne.tovar@blackbuckresources.com

Date: 06/21/2024

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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 356578

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	356578
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 51 and 75 (ft.)	
What method was used to determine the depth to ground water	Direct Measurement	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (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 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (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	Zero feet, overlying, or within area	
Categorize the risk of this well / site being in a karst geology	High	
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provide	ded to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contami	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each,	in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 CI B)	2680
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
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 NMAC unless the site characterization report includes com which includes the anticipated timelines for beginning and completing the remediation.	mpleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	05/13/2024
On what date will (or did) the final sampling or liner inspection occur	05/24/2024
On what date will (or was) the remediation complete(d)	06/05/2024
What is the estimated surface area (in square feet) that will be reclaimed	17320
What is the estimated volume (in cubic yards) that will be reclaimed	1300
What is the estimated surface area (in square feet) that will be remediated	17320
What is the estimated volume (in cubic yards) that will be remediated	1300
These estimated dates and measurements are recognized to be the best guess or calculation	n at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjuste	ted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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

QUESTIONS, Page 4

Action 356578

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	356578
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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.)		
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.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: Adrienne Tovar

Email: adrienne.tovar@blackbuckresources.com

Date: 06/21/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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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 356578

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	356578
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

District I

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

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

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QUESTIONS, Page 6

Action 356578

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	356578
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	349868
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/05/2024
What was the (estimated) number of samples that were to be gathered	100
What was the sampling surface area in square feet	18900

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	17320	
What was the total volume (cubic yards) remediated	1300	
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	17320	
What was the total volume (in cubic yards) reclaimed	1300	
Summarize any additional remediation activities not included by answers (above)	After buried pipelines and utilities in the ROW were hydrovac'd and uncovered to be safely identified, the entire area was excavated/remediated at risk. All contamination was removed from the site and disposed of properly. Composite confirmation floor and sidewall samples were obtained followed by backfill of the entire remediation area to resume oilfield activities along the ROW and lease road. Backfill material was tested and confirmed to be clean before backfilling into the excavation.	

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: Adrienne Tovar
I hereby agree and sign off to the above statement	Email: adrienne.tovar@blackbuckresources.com
	Date: 06/21/2024

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

QUESTIONS, Page 7

Action 356578

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	356578
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

CONDITIONS

Action 356578

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	356578
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved. Sampling notices were submitted for 5/24, 5/28, 6/3 and 6/5/24, however samples were also collected on 5/30, 6/4 and 6/7. No sampling notice was submitted for 5/30, 6/4 and 6/7/24. A sampling notice should be submitted at least two business days prior to collection for each date that confirmation samples are collected.	7/2/2024
scwells	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	7/2/2024