

SITE INFORMATION

Closure Report
Freedom State 36 SWD (03.31.2024)
Incident ID: NAPP2409236022
Eddy County, New Mexico
Unit M Sec 36 T24S R26E
32.16999°, -104.25298°

Produced Water Release
Point of Release: Equipment Failure
Release Date: 03.31.2024

Volume Released: 90 Barrels of Produced Water Volume Recovered: 50 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



August 16, 2024

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

Re: Closure Report

Freedom State 36 SWD (03.31.2024) Incident ID: NAPP2409236022

Blackbuck Resources

Site Location: Unit M, S36, T24S, R26E

(Lat 32.16999°, Long -104.25298°)

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 Freedom State 36 SWD. The site is located at 32.16999°, -104.25298° within Unit M, S36, T24S, 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 March 31, 2024, caused by equipment failure. It resulted in approximately ninety (90) barrels of produced water released with fifty (50) barrels of produced water recovered. The impacted area is located on the well pad. 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 water well is approximately 0.93 miles North of the site in S26, T24S, R26E and was drilled in 1958. The well is reported to contain water at a depth of 42 feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Site Assessment Activities

Initial Soil Assessment

On April 16, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, four (4) test trenches (T-1 through T-4) and seven (7) horizontal samples (H-1 through H-7) were advanced to depths ranging from the surface to 2.0' bgs until refusal due to a dense geological formation. See Figure 3 for sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Labs in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-7 horizontally defined the spill area and were below regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Vertical Delineation

The areas of T-1 through T-4 all showed chloride impact from 0-1' bgs. Delineation of the areas of T-1 through T-4 was achieved at 1.5' bgs. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via web portal on July 18, 2024 and July 29, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of forty-six (46) confirmation floor samples (CS-1 through CS-46) and twenty-three (23) sidewall samples (SW-1 through SW-23) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4a-4b.

All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride, except for SW-5 and SW-17 which showed elevated chloride levels ranging from 600 mg/kg to 617 mg/kg. SW-5 was excavated laterally an additional 0.5' to remove impacted material. While reviewing the field-screened data, it was determined that the area of SW-17 was to be excavated laterally an additional 0.5' to remove possible impacted material. SW-17 was recollected and stored on ice and in the freezer in the event that it needed to be submitted after receiving the initial laboratory results. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 9,027 square feet and 460 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. One (1) composite stockpile sample (Backfill Sample) was collected. It was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. Backfill Pit location is shown in Figure 5.

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



6.0 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

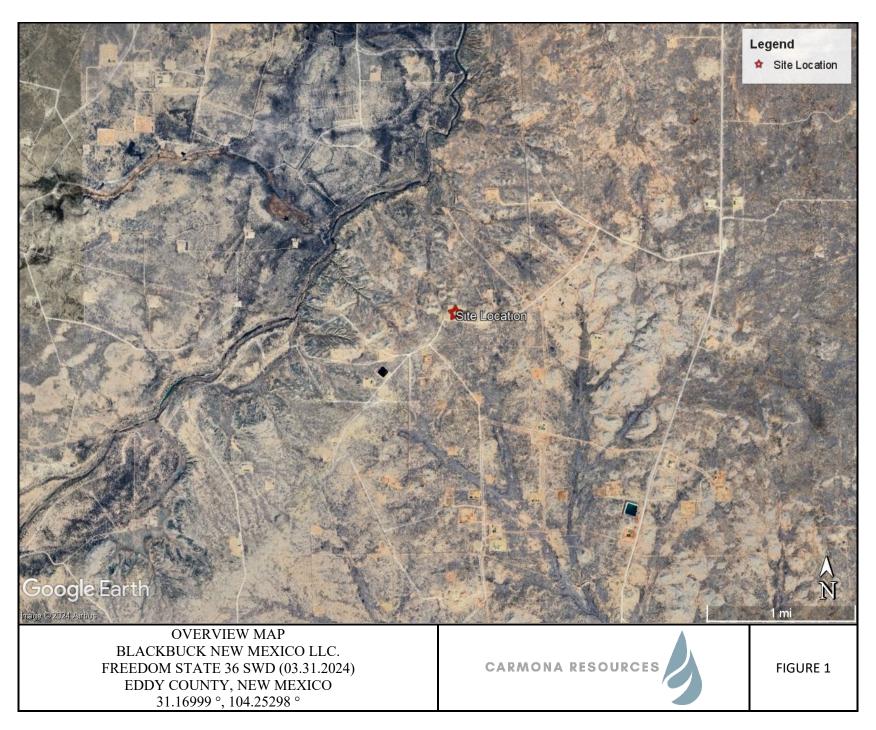
Ashton Thielke

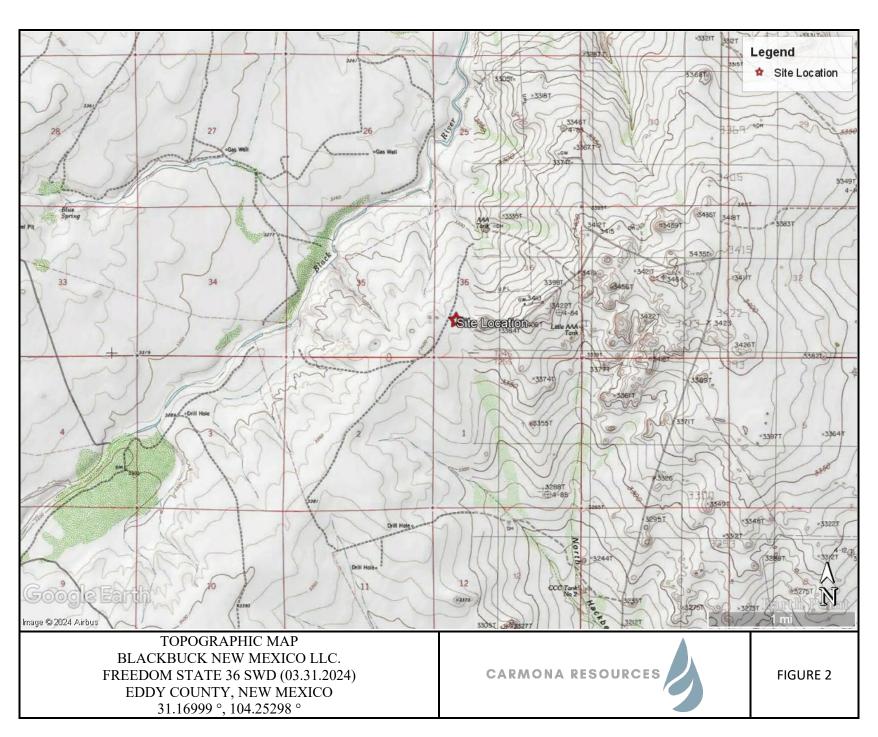
Sr. Project Manager

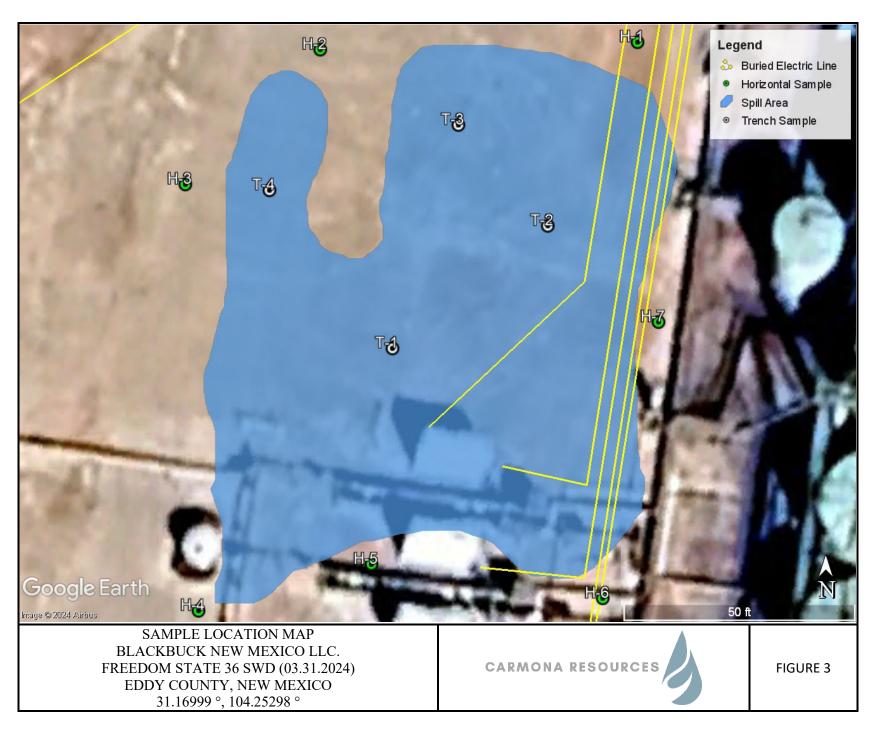
Gilbert Priego Project Manager

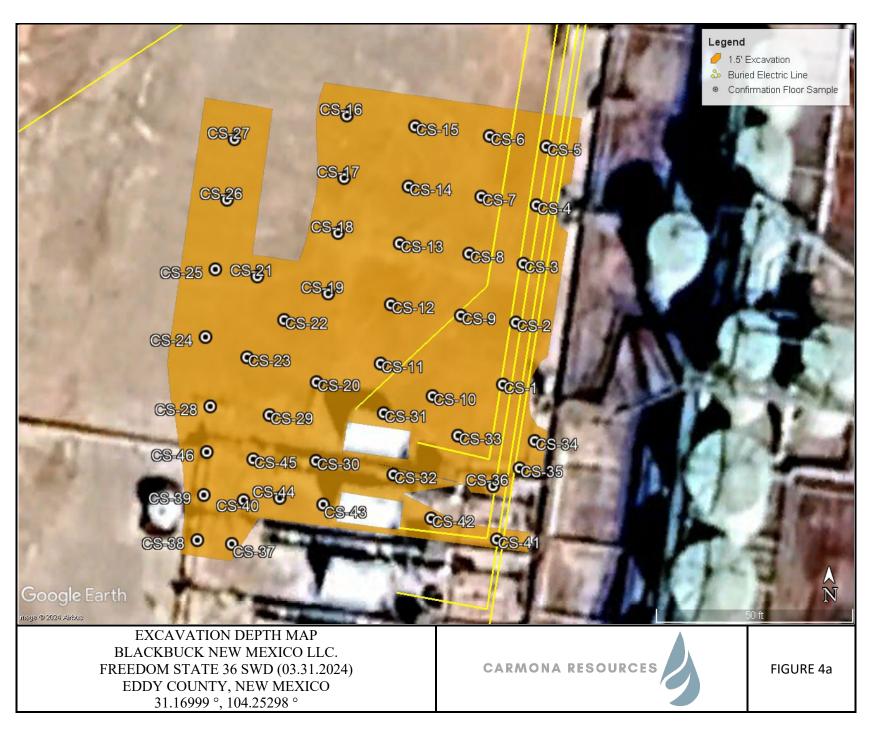
FIGURES

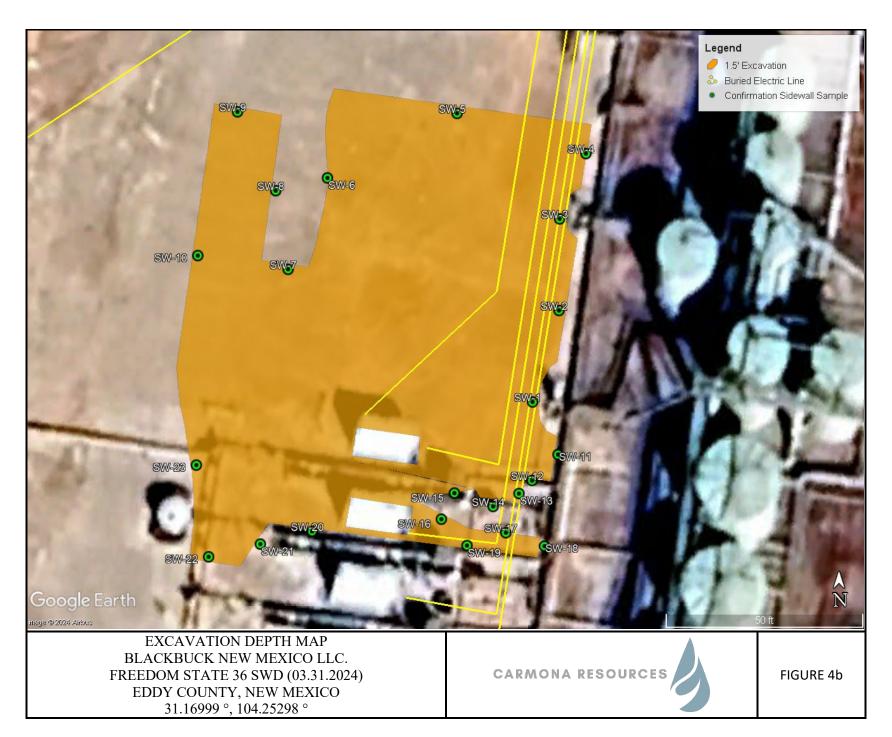
CARMONA RESOURCES













APPENDIX A



Table 1
Blackbuck Resources
Freedom State 36 SWD (03.31.2024)
Eddy Co, New Mexico

Commis ID	Date	Donath (ft)		TPF	H (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chlorida (man/len)
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Chloride (mg/kg)
T-1	4/16/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7,190
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	514
	4/16/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	12,600
T-2	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	444
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	407
	4/16/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16,000
T-3	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	67.1
	"	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	84.3
	4/16/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,290
T-4	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	13.7
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5.78
H-1	4/16/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	83.7
H-2	4/16/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	119
H-3	4/16/2024	0-1	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.03
H-4	4/16/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	65.5
H-5	4/16/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	452
H-6	4/16/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	61.0
H-7	4/16/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	84.3
Regulat	tory CriteriaA					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

^A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet

(T) Test Trench

(H) Horizontal Sample

Removed

Table 2
Blackbuck Resources
Freedom State 36 SWD (03.31.2024)
Eddy Co, New Mexico

On which ID	D. (D - 1141- (ft)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Oblania (m. milan)
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Chloride (mg/kg)
CS-1	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	222
CS-2	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	439
CS-3	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-4	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-5	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-6	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-7	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-8	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	218
CS-9	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-10	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-11	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	502
CS-12	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	492
CS-13	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-14	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-15	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	201
CS-16	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	335
CS-17	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	386
CS-18	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-19	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	446
CS-20	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-21	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	370
CS-22	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-23	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ry CriteriaA					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet

(CS) Confirmation Floor Sample (ND) Non-Detect

Table 2
Blackbuck Resources
Freedom State 36 SWD (03.31.2024)
Eddy Co, New Mexico

Sample ID	Date	Depth (ft)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride (mg/kg)
			GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
CS-24	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	431
CS-25	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	266
CS-26	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-27	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	262
CS-28	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-29	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	553
CS-30	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	514
CS-31	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	528
CS-32	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	355
CS-33	8/1/2024	1.5	ND	31.2	ND	ND	ND	ND	ND	ND	ND	ND
CS-34	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	165
CS-35	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	364
CS-36	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	264
CS-37	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-38	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-39	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-40	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-41	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	77.6
CS-42	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	286
CS-43	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	333
CS-44	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-45	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	505
CS-46	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	286
	ry CriteriaA Analyzed					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet

(CS) Confirmation Floor Sample (ND) Non-Detect

Table 2
Blackbuck Resources
Freedom State 36 SWD (03.31.2024)
Eddy Co, New Mexico

Sample ID	Date	Depth (ft)	070		l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride (mg/kg)
SW-1	7/24/2024	1.5	GRO ND	DRO ND	MRO ND	Total ND	(mg/kg) ND	(mg/kg) ND	(mg/kg) ND	(mg/kg) ND	(mg/kg)	ND
SW-2	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-3	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	411
SW-4	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	462
SW-5	7/24/2024 8/1/2024	1.5 1.5	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	600 ND
0)4/ 0												
SW-6	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-7	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-8	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-9	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	233
SW-10	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-11	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-12	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	246
SW-13	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	257
SW-14	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	235
SW-15	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	262
SW-16	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	201
SW-17	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	617
3W-17	8/1/2024	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	0.00675	0.00675	42.2
SW-18	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	254
SW-19	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	257
SW-20	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	272
SW-21	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	282
SW-22	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	150
SW-23	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Backfill Sample	7/24/2024	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	120
Regulator	ry CriteriaA					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet (SW) Confirmation Sidewall Sample (ND) Non-Detect Removed

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Blackbuck New Mexico LLC

Photograph No. 1

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View North, area of CS-1 through CS-20.



Photograph No. 2

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-21 and CS-27.



Photograph No. 3

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-28 through CS-32.





PHOTOGRAPHIC LOG

Blackbuck New Mexico LLC

Photograph No. 4

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View South, area of CS-33 through CS-36.



Photograph No. 5

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-36 and CS-41 through CS-42.



Photograph No. 6

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View East, area of CS-43 through CS-44.





PHOTOGRAPHIC LOG

Blackbuck New Mexico LLC

Photograph No. 7

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-37 through CS-40 and CS-45 through CS-46.



Photograph No. 8

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View East, area backfilled.



Photograph No. 9

Facility: Freedom State 36 SWD

County: Eddy County, New Mexico

Description:

View Northeast, area backfilled.





APPENDIX C

CARMONA RESOURCES

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

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

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

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 328319

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	328319
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source						
Please answer all the questions in this group.						
Site Name	Freedom Sate 36 SWD					
Date Release Discovered	03/31/2024					
Surface Owner	State					

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						

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 90 BBL Recovered: 50 BBI Lost: 40 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Cause: Equipment Failure Pump Condensate Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Pump Natural Gas Vented Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Pump Natural Gas Flared Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf.
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)	N/A

District I
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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, Page 2

Action 328319

QUESTIONS	(continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	328319
	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	N/A	

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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ACKNOWLEDGMENTS

Action 328319

ACKNOWLEDGMENTS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	328319
l l	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

✓	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.		
V	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.		
V	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.		
V	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.		
V	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.		
V	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 328319

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	328319
	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.	4/1/2024

Received by OCD: 8/20/2024 8:17:04 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

		uge	4/	UJ	4
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 nust be notified 2 days prior to liner inspection)			
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)			
☐ Description of remediation activities			
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.		
Signature:	Date:		
email:	Telephone:		
OCD Only			
OCD Only Received by:	Date:		
Received by: Closure approval by the OCD does not relieve the responsible party	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible		
Received by: Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.		

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

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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 365178

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	365178
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites		
Incident ID (n#) nAPP2409236022		
Incident Name	NAPP2409236022 FREEDOM SATE 36 SWD @ 0	
Incident Type	Produced Water Release	
Incident Status	Notification Accepted	

Location of Release Source	
Site Name Freedom Sate 36 SWD	
Date Release Discovered 03/31/2024	
Surface Owner	State

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	10,200	
What is the estimated number of samples that will be gathered	65	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/23/2024	
Time sampling will commence	10:00 AM	
Please provide any information necessary for observers to contact samplers	Sampler contact: Jose Morales (432-640-9794) Carmona Resources will be on site collecting samples on 07/23/2024, 07/24/2024, 07/25/2024	
Please provide any information necessary for navigation to sampling site	South of CR 720 on John Forehand Road, then west to GPS coordinates 32.1699N, 104.2529W	

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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 365178

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	365178
	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.	7/18/2024

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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 367875

QI	JESTIONS						
Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID: 373619 Action Number: 367875 Action Type: [NOTIFY] Notification Of Sampling (C-141N)						
QUESTIONS	•						
Prerequisites							
Incident ID (n#)	nAPP2409236022						
Incident Name	NAPP2409236022 FREEDOM SATE 36 SWD @ 0						
Incident Type	Produced Water Release						
Incident Status	Notification Accepted						
Location of Release Source							
Site Name	Freedom Sate 36 SWD						
Date Release Discovered	03/31/2024						
Surface Owner	State						
Sampling Event General Information							
Please answer all the questions in this group.							

Sampling Event General Information								
Please answer all the questions in this group.								
What is the sampling surface area in square feet	10,200							
What is the estimated number of samples that will be gathered	65							
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/30/2024							
Time sampling will commence	12:00 PM							

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Site contact - Gilbert Priego (432-813-7389
Please provide any information necessary for navigation to sampling site	GPS coordinates - 32.16999n, 104.25298W Carmona Resources will be on site 07/30 - 08/01 to collect 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 367875

CONDITIONS

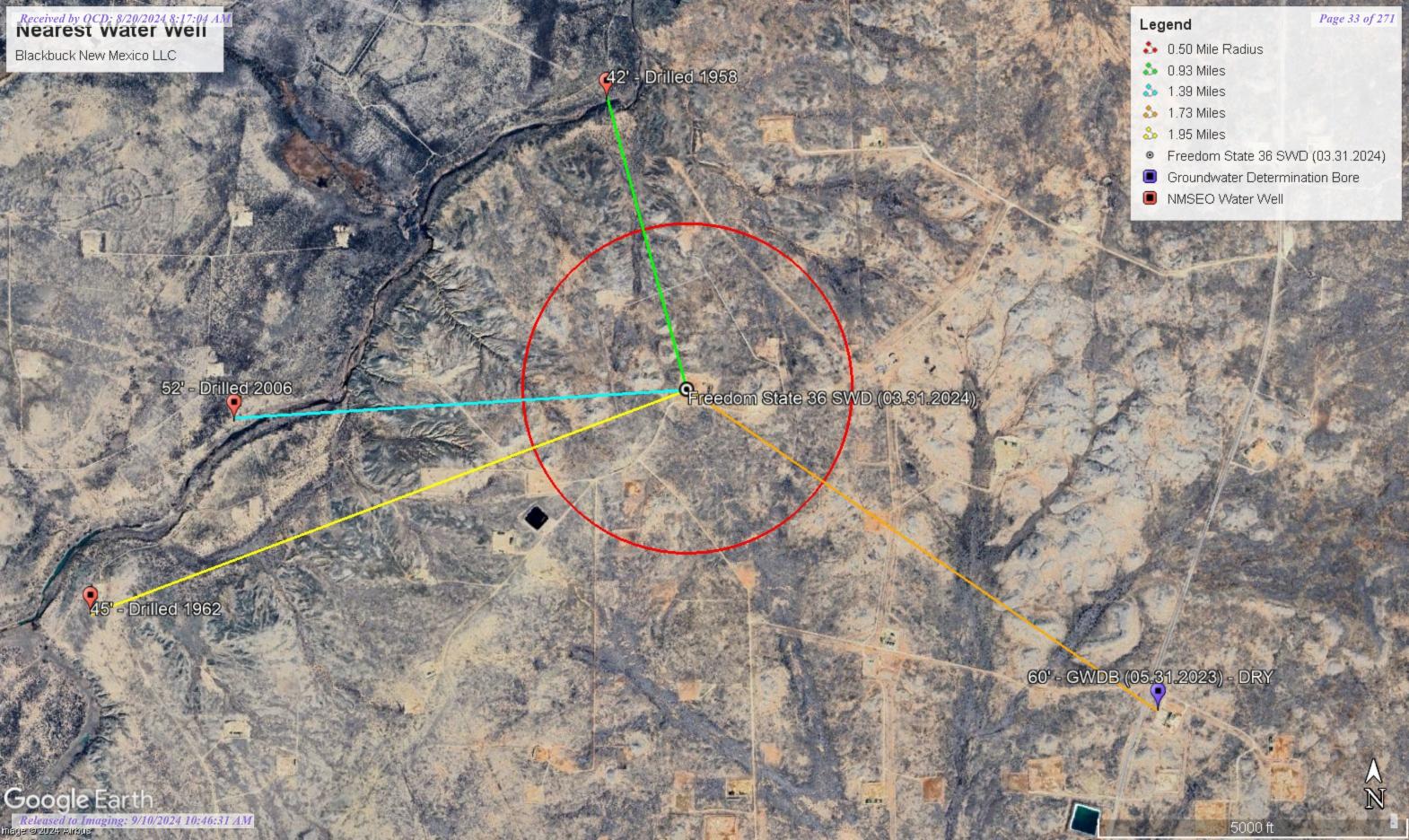
Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	367875
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

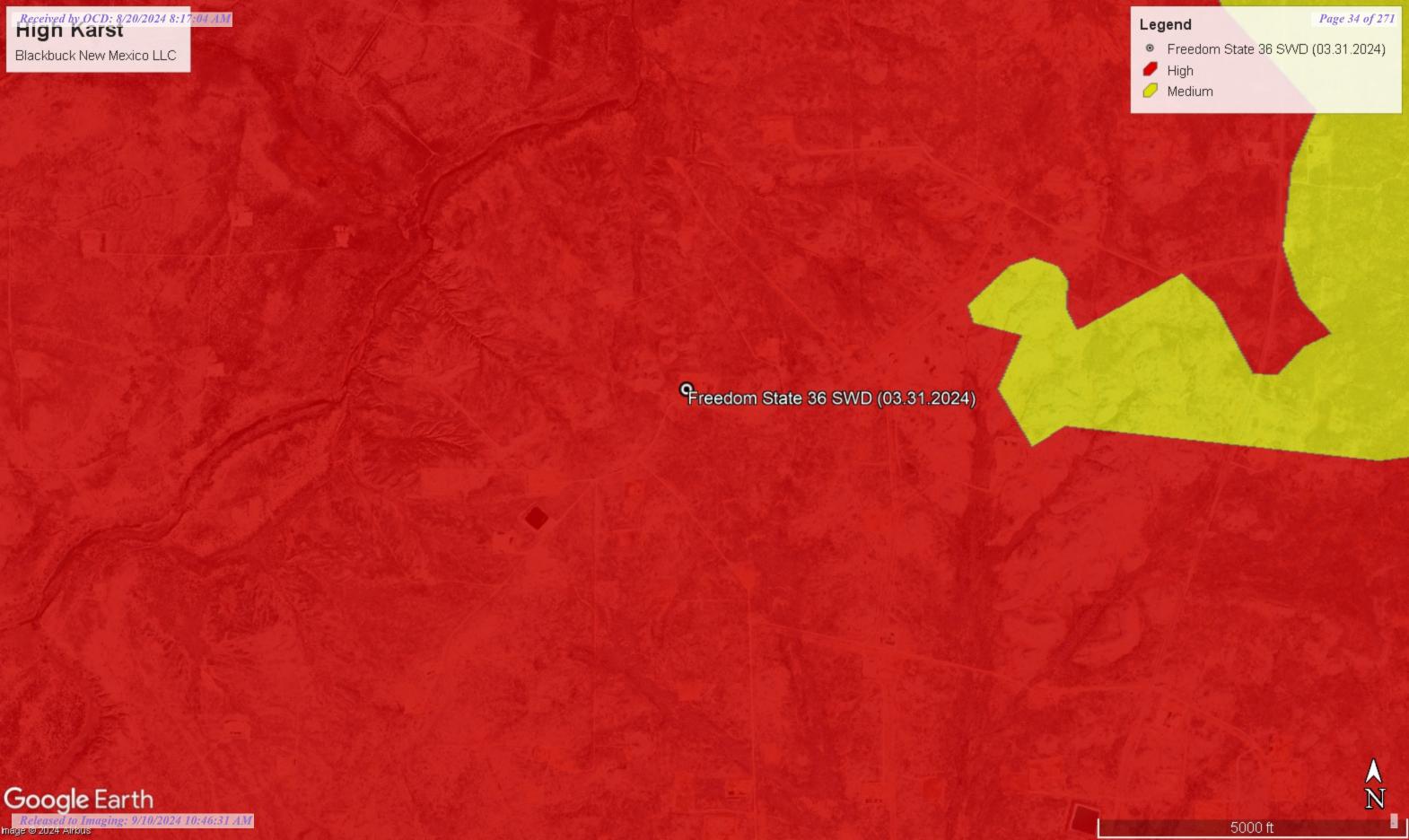
CONDITIONS

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.	7/29/2024

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				_									
POD Number	Code	Sub- basin	County		Q 16	_	Sec	Tws	Rng	х	Y	Distance	-	Depth Water	Water Column
C 00819		С	ED		4	4	26	24S	26E	570022	3560935* 🌍	1470	62	42	20
C 04586 POD1		С	ED	4	1	1	35	24S	26E	568993	3560476 🎒	1724	150		
C 03200 POD1		С	ED	2	3	4	34	24S	26E	568206	3559349 🎒	2230	80	52	28
C 00262 POD2		С	ED	4	3	1	24	24S	26E	570234	3562337 🎒	2822	45	18	27
C 00792		С	ED		4	2	27	24S	26E	568397	3561747* 🎒	3013	70	30	40
C 01089		С	ED	3	4	1	03	25S	26E	567505	3558398* 🎒	3133	96	45	51
<u>C 00690</u>		С	ED	1	3	3	24	24S	26E	570288	3562653* 🎒	3134	30	10	20
C 03526 POD1		С	ED	1	4	4	23	24S	26E	569788	3562666 🎒	3209	200		
C 01869	R	С	ED	2	3	4	23	24S	26E	569753	3562679 🎒	3229	110	30	80
C 01869 POD2		С	ED	2	3	4	23	24S	26E	569753	3562679 🎒	3229	111	50	61
<u>C 00883</u>		С	ED	3	2	4	23	24S	26E	569887	3562855* 🎒	3376	60	14	46
C 03110		С	ED	4	1	4	23	24S	26E	569690	3562856* 🎒	3415	35	12	23
<u>C 01616</u>		С	ED		2	4	23	24S	26E	569988	3562956* 🎒	3462	84	84	0
C 00100 A		CUB	ED	1	1	3	24	24S	26E	570284	3563053 🌕	3534	51	26	25
<u>C 00949</u>		С	ED	1	1	3	24	24S	26E	570284	3563053* 🌕	3534	62	35	27
<u>C 00829</u>		С	ED		1	4	23	24S	26E	569591	3562957* 🌕	3535	50	19	31
C 00262	R	С	ED	4	3	1	24	24S	26E	570481	3563253* 🌕	3731	50		
C 00692		С	ED	3	3	1	24	24S	26E	570281	3563253* 🌕	3733	50	42	8
<u>C 01085</u>		С	ED		4	2	23	24S	26E	569990	3563356*	3859	127	60	67

Average Depth to Water:

35 feet

Minimum Depth: Maximum Depth:

10 feet

_ _ _ _ _ .

84 feet

Record Count: 19

UTMNAD83 Radius Search (in meters):

Easting (X): 570430 **Northing (Y):** 3559522 **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.

4/11/24 10:08 AM Page 1 of 1 WATER COLU

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

 \mathbf{X}

C 00819

26E 24S

570022 3560935*

Driller License: 30 **Driller Company:**

BARRON, EMMETT

Driller Name:

Drill Start Date:

EMMETT BARRON

02/23/1958

Drill Finish Date:

02/25/1958

Plug Date:

Log File Date:

03/25/1958

PCW Rcv Date:

Shallow Source:

Pump Type: Casing Size: Pipe Discharge Size:

Depth Well:

62 feet

Depth Water:

42 feet

Water Bearing Stratifications:

Estimated Yield:

Bottom Description Top

42

62 Sandstone/Gravel/Conglomerate

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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

X Y

C 03200 POD1 2

2 3 4 34 24S 26E

568206 3559349

9 🌑

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:

Cl- -11 ----

Log File Date:

08/18/2006

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

8 GPM

Casing Size:

Depth Well:

80 feet

Depth Water:

52 feet

Water Bearing Stratifications:

Top Bottom Description

65

75 Sandstone/Gravel/Conglomerate

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4/11/24 10:10 AM

POINT OF DIVERSION SUMMARY

SOIL BORE 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

X

C 01089

25S 26E

567505 3558398*

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: 11/01/1962

Log File Date:

08/17/1962 **PCW Rcv Date:** Source:

Shallow

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	

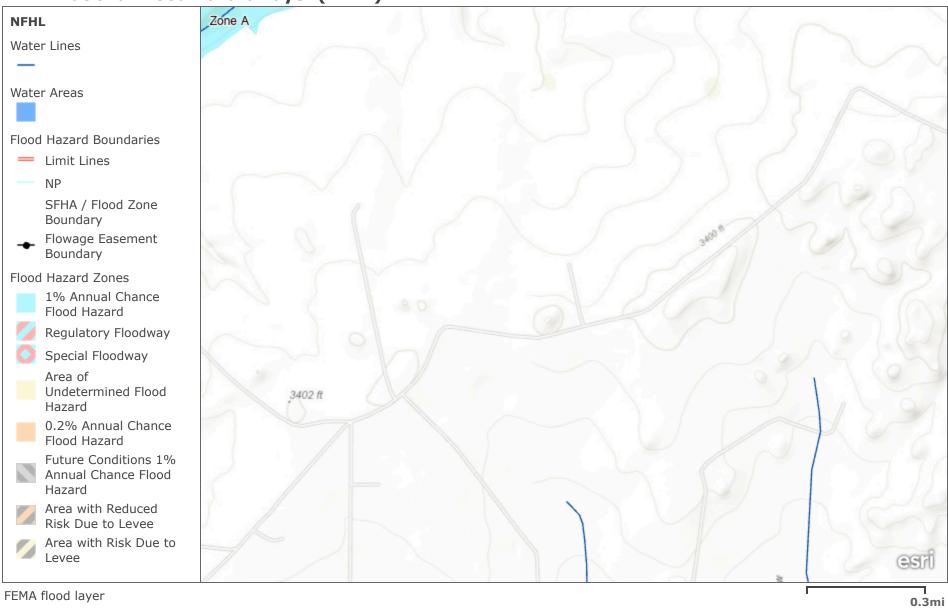
^{*}UTM location was derived from PLSS - see Help

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4/11/24 10:12 AM

POINT OF DIVERSION SUMMARY

FEMA National Flood Hazard Layer (NFHL)



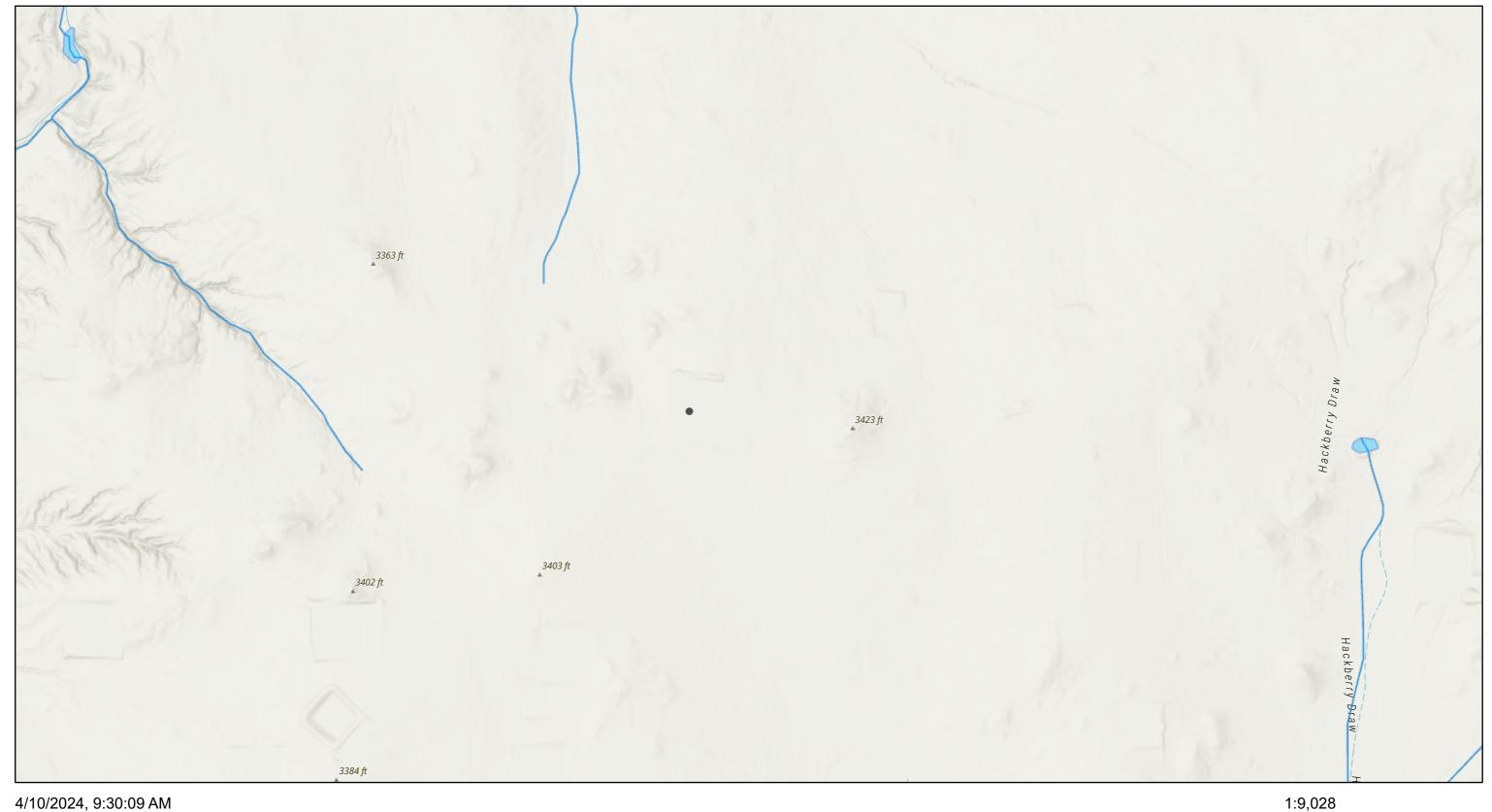
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)

Zone A **NFHL** Water Lines 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 Hazard Area with Reduced Risk Due to Levee Area with Risk Due to Levee FEMA flood layer 0.3mi

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Freedom Sate 36 SWD (03.31.2024)



OSW Water Bodys

OSE Streams

1:9,028 0 0.07 0.15 0.3 mi 0 0.15 0.3 0.6 km

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APPENDIX E

CARMONA RESOURCES

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/19/2024 2:32:51 PM

JOB DESCRIPTION

Freedom State 36 SWD Eddy County, New Mexico

JOB NUMBER

880-42339-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 4/19/2024 2:32:51 PM

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

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Client: Carmona Resources Project/Site: Freedom State 36 SWD Laboratory Job ID: 880-42339-1 SDG: Eddy County, New Mexico

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Chain of Custody	31
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Definitions/Glossary

Job ID: 880-42339-1 Client: Carmona Resources Project/Site: Freedom State 36 SWD SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier

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

Qualifier Description

Qualifier Description

GC Semi VOA

Qualifier **Qualifier Description**

S1+ U

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

HPLC/IC

Qualifier Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid

CFU Colony Forming Unit CNF Contains No Free Liquid DER

Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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

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

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-42339-1 Project: Freedom State 36 SWD

Job ID: 880-42339-1 Eurofins Midland

Job Narrative 880-42339-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 4/17/2024 8:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-42339-1), T-1 (1.5') (880-42339-2), T-1 (2.0') (880-42339-3), T-2 (0-1') (880-42339-4), T-2 (1.5') (880-42339-5), T-2 (2.0') (880-42339-6), T-2 (3.0") (880-42339-7), T-3 (0-1') (880-42339-8), T-3 (1.5') (880-42339-9), T-3 (2.0) (880-42339-10), T-3 (3.0') (880-42339-11), T4 (0-1') (880-42339-12), T4 (1.5') (880-42339-13), T4 (2.0') (880-42339-14) and T4 (3.0') (880-42339-15).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-78438 recovered above the upper control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-78438/20).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-78474 and analytical batch 880-78438 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-78460 and analytical batch 880-78551 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-42339-1), T-2 (1.5') (880-42339-5), T-3 (2.0) (880-42339-10) and T4 (1.5') (880-42339-13). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-42339-1

Matrix: Solid

Client Sample ID: T-1 (0-1')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 22:42	
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 22:42	
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		04/17/24 11:00	04/17/24 22:42	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/24 11:00	04/17/24 22:42	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 22:42	
Kylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/24 11:00	04/17/24 22:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
I-Bromofluorobenzene (Surr)	81		70 - 130				04/17/24 11:00	04/17/24 22:42	
1,4-Difluorobenzene (Surr)	95		70 - 130				04/17/24 11:00	04/17/24 22:42	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
	D14	O1161	RL	MDI	Unit	D	Prepared	Analyzed	Dil F
nalyte	Result	Qualifier	NL.	IVIDE	Oilit		rreparea		
Total BTEX	<0.00398	U	0.00398	- MDL	mg/Kg			04/17/24 22:42	
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00398	U	0.00398				Prepared		
Total BTEX Method: SW846 8015 NM - Diese	<0.00398	ics (DRO) (Qualifier	0.00398 GC)		mg/Kg	<u> </u>		04/17/24 22:42	
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00398 I Range Organ Result <50.0	ics (DRO) (Qualifier	0.00398 GC) RL 50.0		mg/Kg	<u> </u>		04/17/24 22:42 Analyzed	Dil F
otal BTEX Method: SW846 8015 NM - Diese Analyte otal TPH Method: SW846 8015B NM - Dies	<0.00398 I Range Organ Result <p><50.0</p> sel Range Orga	ics (DRO) (Qualifier	0.00398 GC) RL 50.0	MDL	mg/Kg	<u> </u>		04/17/24 22:42 Analyzed	Dil F
Method: SW846 8015 NM - Diese Inalyte Idethod: SW846 8015B NM - Diese	<0.00398 I Range Organ Result <p><50.0</p> sel Range Orga	ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg		Prepared	04/17/24 22:42 Analyzed 04/18/24 09:57	Dil F
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics GRO)-C6-C10	<0.00398 I Range Organ Result <50.0 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	04/17/24 22:42 Analyzed 04/18/24 09:57 Analyzed	Dil F
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00398 I Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 50.0 (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 04/17/24 10:05 04/17/24 10:05	Analyzed 04/18/24 09:57 Analyzed 04/18/24 09:57 04/18/24 09:57	Dil F
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00398 I Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 50.0 (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg		Prepared Prepared 04/17/24 10:05	Analyzed 04/18/24 09:57 Analyzed 04/18/24 09:57	Dil F
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Dil Range Organics (Over C28-C36)	<0.00398 I Range Organ	ics (DRO) (Qualifier U mics (DRO) Qualifier U U	0.00398 GC) RL 50.0 (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 04/17/24 10:05 04/17/24 10:05	Analyzed 04/18/24 09:57 Analyzed 04/18/24 09:57 04/18/24 09:57	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00398 I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) (Qualifier U mics (DRO) Qualifier U U	0.00398 RL 50.0 (GC) RL 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 04/17/24 10:05 04/17/24 10:05	Analyzed 04/18/24 09:57 Analyzed 04/18/24 09:57 04/18/24 09:57 04/18/24 09:57	Dil F

Client Sample ID: T-1 (1.5')

Date Collected: 04/16/24 00:00

Analyte

Chloride

Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 23:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 23:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 23:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/24 11:00	04/17/24 23:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 23:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/24 11:00	04/17/24 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				04/17/24 11:00	04/17/24 23:02	
1,4-Difluorobenzene (Surr)	89		70 - 130				04/17/24 11:00	04/17/24 23:02	1

RL

100

MDL Unit

mg/Kg

D

Prepared

Analyzed

04/17/24 18:00

Lab Sample ID: 880-42339-2

Dil Fac

Matrix: Solid

20

Result Qualifier

7190

Project/Site: Freedom State 36 SWD

Client Sample ID: T-1 (1.5')

Date Collected: 04/16/24 00:00

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-42339-2

Matrix: Solid

Date Received: 04/17/24 08:54								
Method: TAL SOP Total BTEX - Total BTEX Calculation								

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg				04/17/24 23:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/24 10:59	1

ı	Method: SW846 8015B NM - Diesel Range Organics (DRO) (C	201	
ı	i Melliou. 30046 60 136 MW - Diesel Railue Olualiics (DRO) (C	301	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 10:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 10:59	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	123	70 - 130	04/17/24 10:05	04/18/24 10:59	1
o-Terphenyl	106	70 - 130	04/17/24 10:05	04/18/24 10:59	1
Г					

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	514	5.02	mg/Kg			04/17/24 18:19	1

Client Sample ID: T-2 (0-1')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab Sa	mple	ID:	880-42339-4

IVI	latr	IX:	So	lıa

ı	Method: SW846 8021B -	Volatile Organic	Compounds (GC)
ı	Amalusta		Decult Ovelities

Analyte	Result	Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	1	mg/Kg		04/17/24 11:00	04/17/24 23:22	1
Toluene	<0.00202	U	0.00202	1	mg/Kg		04/17/24 11:00	04/17/24 23:22	1
Ethylbenzene	<0.00202	U	0.00202	ı	mg/Kg		04/17/24 11:00	04/17/24 23:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	1	mg/Kg		04/17/24 11:00	04/17/24 23:22	1
o-Xylene	<0.00202	U	0.00202	ı	mg/Kg		04/17/24 11:00	04/17/24 23:22	1
Xylenes, Total	<0.00403	U	0.00403	1	mg/Kg		04/17/24 11:00	04/17/24 23:22	1
Surrogato	% Pacayony	Qualifier	Limite				Propared	Analyzod	Dil Esc

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85	70 - 130	04/17/24 11:00	04/17/24 23:22	1
1,4-Difluorobenzene (Surr)	94	70 - 130	04/17/24 11:00	04/17/24 23:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Released to Imaging: 9/10/2024 10:46:31 AM

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			04/17/24 23:22	1

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

		7					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			04/18/24 11:21	1

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

mountain and to to the first time and the first time (2000)										
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Gasoline Range Organics	<49.8	U	49.8	mg/Kg		04/17/24 10:05	04/18/24 11:21	1	
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		04/17/24 10:05	04/18/24 11:21	1	
	C10-C28)									

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mexico

Client Sample ID: T-2 (0-1') Date Collected: 04/16/24 00:00

Lab Sample ID: 880-42339-4

Matrix: Solid

Pate Received: 04/17/24 08:54								
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)								

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 11:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				04/17/24 10:05	04/18/24 11:21	1
o-Terphenyl	117		70 - 130				04/17/24 10:05	04/18/24 11:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	12600	251	mg/Kg			04/17/24 18:25	50

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-42339-5

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Matrix: Solid

Method: SW846 8021B - Volat									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/24 11:00	04/17/24 23:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/24 11:00	04/17/24 23:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/24 11:00	04/17/24 23:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/24 11:00	04/17/24 23:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/24 11:00	04/17/24 23:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/24 11:00	04/17/24 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/17/24 11:00	04/17/24 23:43	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/17/24 11:00	04/17/24 23:43	1

Surrogate	%Recovery	Quaimer	Limits	Prepared	Anaryzea	DII Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	04/17/24 11:00	04/17/24 23:43	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/17/24 11:00	04/17/24 23:43	1
_						

Method:	TAL SOP	Total BTEX	: - Total BTE	(Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/17/24 23:43	1

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

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	U	50.0	mg/Kg			04/18/24 11:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 11:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 11:42	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 11:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	04/17/24 10:05	04/18/24 11:42	1
o-Terphenyl	129		70 - 130	04/17/24 10:05	04/18/24 11:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	444		25.2		mg/Kg			04/17/24 18:32	5	

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-42339-6

Matrix: Solid

Client Sample ID: T-2 (2.0')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/18/24 00:03	
Toluene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/18/24 00:03	•
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/18/24 00:03	•
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/17/24 11:00	04/18/24 00:03	
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/18/24 00:03	,
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/17/24 11:00	04/18/24 00:03	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	85		70 - 130				04/17/24 11:00	04/18/24 00:03	
1,4-Difluorobenzene (Surr)	93		70 - 130				04/17/24 11:00	04/18/24 00:03	
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/18/24 00:03	
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/24 12:03	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 12:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 12:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/17/24 10:05	04/18/24 12:03	1
o-Terphenyl	115		70 ₋ 130				04/17/24 10:05	04/18/24 12:03	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	407		5.05		mg/Kg			04/17/24 18:38	1

Client Sample ID: T-3 (0-1')

Date Collected: 04/16/24 00:00

Released to Imaging: 9/10/2024 10:46:31 AM

Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 00:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 00:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 00:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/24 11:00	04/18/24 00:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 00:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/24 11:00	04/18/24 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				04/17/24 11:00	04/18/24 00:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/17/24 11:00	04/18/24 00:24	1

Eurofins Midland

Lab Sample ID: 880-42339-8

Matrix: Solid

Project/Site: Freedom State 36 SWD

Client Sample ID: T-3 (0-1')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-42339-8

Matrix: Solid

Dil Fac

Method: TAL SOP Total BTEX - Total BTEX Calculation											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed			
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/18/24 00:24			
	_										

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Prepared Analyzed Analyte D Dil Fac Total TPH <50.0 U 50.0 04/18/24 12:24 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Dil Fac Analyte D Prepared Analyzed <50.0 U 50.0 04/17/24 10:05 04/18/24 12:24 Gasoline Range Organics mg/Kg (GRO)-C6-C10 <50.0 U 50.0 04/17/24 10:05 Diesel Range Organics (Over mg/Kg 04/18/24 12:24 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/17/24 10:05 04/18/24 12:24 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 04/17/24 10:05 1-Chlorooctane 118 04/18/24 12:24 o-Terphenyl 110 70 - 130 04/17/24 10:05 04/18/24 12:24

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 16000 250 mg/Kg 04/17/24 18:57 50

Client Sample ID: T-3 (1.5') Lab Sample ID: 880-42339-9 Date Collected: 04/16/24 00:00 **Matrix: Solid**

Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/17/24 11:00	04/18/24 00:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/17/24 11:00	04/18/24 00:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/17/24 11:00	04/18/24 00:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/17/24 11:00	04/18/24 00:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/17/24 11:00	04/18/24 00:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/17/24 11:00	04/18/24 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/17/24 11:00	04/18/24 00:44	1
Method: TAL SOP Total BTEX			70 - 130				04/17/24 11:00	04/18/24 00:44	·
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL	Unit	<u>D</u>	04/17/24 11:00 Prepared	Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00396	Qualifier U	RL 0.00396	MDL	Unit mg/Kg	<u>D</u>			Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <	Qualifier U	RL 0.00396			<u>D</u>		Analyzed	•
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <	Qualifier U ics (DRO) (Qualifier	RL 0.00396		mg/Kg	=	Prepared	Analyzed 04/18/24 00:44	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00396 sel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00396 GC) RL 49.8		mg/Kg	=	Prepared	Analyzed 04/18/24 00:44 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - Die	- Total BTEX Calc Result <0.00396 sel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00396 GC) RL 49.8	MDL	mg/Kg	=	Prepared	Analyzed 04/18/24 00:44 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00396 sel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00396 GC) RL 49.8	MDL	mg/Kg Unit mg/Kg		Prepared Prepared	Analyzed 04/18/24 00:44 Analyzed 04/18/24 12:46	Dil Fac

2

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1 SDG: Eddy County, New Mexico

Lab Sample ID: 880-42339-9

80-42339-9 Matrix: Solid

Client Sample ID: T-3 (1.5')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/17/24 10:05	04/18/24 12:46	1
o-Terphenyl	110		70 - 130				04/17/24 10:05	04/18/24 12:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL Uni	<u>D</u>	Prepared	Analyzed	Dil Fac	
	Chloride	67.1		4.98	mg/			04/17/24 19:03	1	

Client Sample ID: T-3 (2.0)

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Lab	Sample	וט:	880-42339-10
			Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 01:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 01:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 01:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/24 11:00	04/18/24 01:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 01:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/24 11:00	04/18/24 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/17/24 11:00	04/18/24 01:05	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/17/24 11:00	04/18/24 01:05	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/18/24 01:05	1

Method: SW846 8015 NM - Diesel Rar	ge Organ	ics (DRO) (GO	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/24 13:07	1
Method: SW846 8015B NM - Diesel Ra	inge Orga	nics (DRO) (C	GC)						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 13:07	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 13:07	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				04/17/24 10:05	04/18/24 13:07	1
o-Terphenyl	119		70 - 130				04/17/24 10:05	04/18/24 13:07	1

Method: EPA 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result Qual	ifier RL	MDL U	Jnit I	D	Prepared	Analyzed	Dil Fac
Chloride	84.3	5.04	m	ng/Kg			04/17/24 19:10	1

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-42339-12

Matrix: Solid

Client Sample ID: T4 (0-1')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/18/24 01:25	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/18/24 01:25	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/18/24 01:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/24 11:00	04/18/24 01:25	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/18/24 01:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/24 11:00	04/18/24 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				04/17/24 11:00	04/18/24 01:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/17/24 11:00	04/18/24 01:25	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/24 01:25	1
	l Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte	•	Qualifier	•	MDL		<u>D</u>	Prepared	Analyzed 04/18/24 13:28	
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier U	RL 49.7	MDL	Unit	<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.7	Qualifier U	RL 49.7		Unit	<u>D</u>	Prepared Prepared		1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <49.7	Qualifier U nics (DRO) Qualifier	RL 49.7		Unit mg/Kg			04/18/24 13:28	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC)		Unit mg/Kg		Prepared	04/18/24 13:28 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC) RL 49.7		Unit mg/Kg Unit mg/Kg		Prepared 04/17/24 10:05	04/18/24 13:28 Analyzed 04/18/24 13:28	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.7 sel Range Orga Result <49.7 <49.7	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05	04/18/24 13:28 Analyzed 04/18/24 13:28 04/18/24 13:28	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05	04/18/24 13:28 Analyzed 04/18/24 13:28 04/18/24 13:28 04/18/24 13:28	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.7	Qualifier U nics (DRO) Qualifier U U	RL 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05 04/17/24 10:05 Prepared	04/18/24 13:28 Analyzed 04/18/24 13:28 04/18/24 13:28 04/18/24 13:28 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05 04/17/24 10:05 Prepared 04/17/24 10:05	04/18/24 13:28 Analyzed 04/18/24 13:28 04/18/24 13:28 04/18/24 13:28 Analyzed 04/18/24 13:28	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05 04/17/24 10:05 Prepared 04/17/24 10:05	04/18/24 13:28 Analyzed 04/18/24 13:28 04/18/24 13:28 04/18/24 13:28 Analyzed 04/18/24 13:28	Dil Fac

Client Sample ID: T4 (1.5') Lab Sample ID: 880-42339-13 **Matrix: Solid**

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/24 11:00	04/18/24 01:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/24 11:00	04/18/24 01:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/24 11:00	04/18/24 01:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/24 11:00	04/18/24 01:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/24 11:00	04/18/24 01:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/24 11:00	04/18/24 01:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				04/17/24 11:00	04/18/24 01:45	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/17/24 11:00	04/18/24 01:45	1

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-42339-13

Client Sample ID: T4 (1.5')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Matrix: Solid

04/17/24 19:22

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/18/24 01:45	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/18/24 13:49	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 13:49	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 13:49	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				04/17/24 10:05	04/18/24 13:49	1
o-Terphenyl	139	S1+	70 - 130				04/17/24 10:05	04/18/24 13:49	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	A						
Analyte	• •	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

4.98 Client Sample ID: T4 (2.0') Lab Sample ID: 880-42339-14

mg/Kg

13.7

Date Collected: 04/16/24 00:00

Chloride

Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 03:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 03:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 03:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/17/24 11:00	04/18/24 03:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/18/24 03:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/17/24 11:00	04/18/24 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				04/17/24 11:00	04/18/24 03:08	1
1 1 Diffusionahan-ana (Curr)	95		70 - 130				04/17/24 11:00	04/18/24 03:08	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX		culation	70 - 130				04/17/24 11.00	04/16/24 03:06	,
	- Total BTEX Cald	Qualifier	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/18/24 03:08	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00401	Qualifier U	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00401	Qualifier U	RL 0.00401			<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00401	Qualifier U ics (DRO) (Qualifier	RL 0.00401		mg/Kg		Prepared	Analyzed 04/18/24 03:08	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 GC) RL 49.9		mg/Kg		Prepared	Analyzed 04/18/24 03:08 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 GC) RL 49.9	MDL	mg/Kg		Prepared	Analyzed 04/18/24 03:08 Analyzed	Dil Fac Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier	RL 0.00401 GC) RL 49.9 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/18/24 03:08 Analyzed 04/18/24 14:47	Dil Fac

Eurofins Midland

C10-C28)

Client Sample Results

Client: Carmona Resources Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-42339-14

Matrix: Solid

Client Sample ID: T4 (2.0') Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/24 10:05	04/18/24 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				04/17/24 10:05	04/18/24 14:47	1
o-Terphenyl	119		70 - 130				04/17/24 10:05	04/18/24 14:47	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.78		4.97		mg/Kg			04/17/24 19:29	1

Released to Imaging: 9/10/2024 10:46:31 AM

Surrogate Summary

Client: Carmona Resources

Job ID: 880-42339-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-42339-1	T-1 (0-1')	81	95	
880-42339-1 MS	T-1 (0-1')	93	108	
880-42339-1 MSD	T-1 (0-1')	119	108	
880-42339-2	T-1 (1.5')	82	89	
880-42339-4	T-2 (0-1')	85	94	
880-42339-5	T-2 (1.5')	85	97	
880-42339-6	T-2 (2.0')	85	93	
880-42339-8	T-3 (0-1')	83	94	
880-42339-9	T-3 (1.5')	85	93	
880-42339-10	T-3 (2.0)	85	93	
880-42339-12	T4 (0-1')	85	95	
880-42339-13	T4 (1.5')	88	92	
880-42339-14	T4 (2.0')	87	95	
LCS 880-78474/1-A	Lab Control Sample	118	109	
LCSD 880-78474/2-A	Lab Control Sample Dup	113	104	
MB 880-78383/5-A	Method Blank	80	93	
MB 880-78474/5-A	Method Blank	80	92	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-42339-1	T-1 (0-1')	134 S1+	121	
880-42339-1 MS	T-1 (0-1')	125	107	
880-42339-1 MSD	T-1 (0-1')	123	104	
880-42339-2	T-1 (1.5')	123	106	
880-42339-4	T-2 (0-1')	129	117	
880-42339-5	T-2 (1.5')	148 S1+	129	
880-42339-6	T-2 (2.0')	125	115	
880-42339-8	T-3 (0-1')	118	110	
880-42339-9	T-3 (1.5')	119	110	
880-42339-10	T-3 (2.0)	134 S1+	119	
880-42339-12	T4 (0-1')	127	115	
880-42339-13	T4 (1.5')	156 S1+	139 S1+	
880-42339-14	T4 (2.0')	128	119	
CS 880-78460/2-A	Lab Control Sample	100	106	
CSD 880-78460/3-A	Lab Control Sample Dup	104	110	
/IB 880-78460/1-A	Method Blank	154 S1+	137 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-78383/5-A

Project/Site: Freedom State 36 SWD

Matrix: Solid

Analysis Batch: 78438

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 78383

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/24 11:46	04/17/24 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/24 11:46	04/17/24 11:40	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/24 11:46	04/17/24 11:40	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/24 11:46	04/17/24 11:40	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/24 11:46	04/17/24 11:40	
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		04/16/24 11:46	04/17/24 11:40	,

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	80	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Prepared Dil Fac Analyzed 04/16/24 11:46 04/17/24 11:40 04/16/24 11:46 04/17/24 11:40

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 78474

1

Lab Sample ID: MB 880-78474/5-A

Matrix: Solid

Analysis Batch: 78438

	мв	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/17/24 22:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/17/24 22:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/17/24 22:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/24 11:00	04/17/24 22:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/24 11:00	04/17/24 22:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/24 11:00	04/17/24 22:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	04/17/24 11:0	0 04/17/24 22:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/17/24 11:0	0 04/17/24 22:20	1

Lab Sample ID: LCS 880-78474/1-A

Matrix: Solid

Analysis Batch: 78438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 78474

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.08948		mg/Kg		89	70 - 130	 	
Toluene	0.100	0.1049		mg/Kg		105	70 - 130		
Ethylbenzene	0.100	0.1212		mg/Kg		121	70 - 130		
m-Xylene & p-Xylene	0.200	0.2342		mg/Kg		117	70 - 130		
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130		

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-78474/2-A

Matrix: Solid

Analysis Batch: 78438

Client Sample ID: Lab	Control Sample Dup
	Dron Type, Total/NA

Prep Type: Total/NA

Prep Batch: 78474

	эріке	LCSD	LCSD				%Rec		KPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08307		mg/Kg		83	70 - 130	7	35

QC Sample Results

Client: Carmona Resources Job ID: 880-42339-1 Project/Site: Freedom State 36 SWD SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-78474/2-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid Analysis Batch: 78438

Analysis Batch: 78438							Prep	Batch:	78474
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08395		mg/Kg		84	70 - 130	22	35
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130	8	35
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130	7	35

LCSD LCSD %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 113 1,4-Difluorobenzene (Surr) 104 70 - 130

Lab Sample ID: 880-42339-1 MS Client Sample ID: T-1 (0-1') Matrix: Solid Prep Type: Total/NA

Analysis Batch: 78438

Analysis Batch: 78438									Prep E	Batch: 78474
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09083		mg/Kg		90	70 - 130	
Toluene	<0.00199	U	0.101	0.09816		mg/Kg		97	70 - 130	
Ethylbenzene	<0.00199	U F1	0.101	0.09751		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1808		mg/Kg		90	70 - 130	
o-Xylene	<0.00199	U	0.101	0.08792		mg/Kg		87	70 - 130	

MS MS Qualifier Surrogate %Recovery Limits 70 - 130 4-Bromofluorobenzene (Surr) 93 1,4-Difluorobenzene (Surr) 108 70 - 130

Lab Sample ID: 880-42339-1 MSD Client Sample ID: T-1 (0-1')

Matrix: Solid

Analysis Batch: 78438									Prep	Batch:	78474
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0998	0.09787		mg/Kg		98	70 - 130	7	35
Toluene	< 0.00199	U	0.0998	0.1153		mg/Kg		116	70 - 130	16	35
Ethylbenzene	< 0.00199	U F1	0.0998	0.1338	F1	mg/Kg		134	70 - 130	31	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2531		mg/Kg		127	70 - 130	33	35
o-Xylene	<0.00199	U	0.0998	0.1239		mg/Kg		124	70 - 130	34	35

	IVISD IVISE	•
Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

MSD MSD

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

Lab Sample ID: MB 880-78460/1-A

Matrix: Solid

Analysis Batch: 78551

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 78460

мв мв Result Qualifier MDL Unit Prepared Gasoline Range Organics <50.0 U 50.0 04/17/24 10:05 04/18/24 07:31 mg/Kg (GRO)-C6-C10

Eurofins Midland

Prep Type: Total/NA

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-78460/1-A

Lab Sample ID: LCS 880-78460/2-A

Project/Site: Freedom State 36 SWD

Matrix: Solid

Matrix: Solid

Analysis Batch: 78551

Prep Type: Total/NA

Prep Batch: 78460

	IND	14.15							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 07:31	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 07:31	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	04/17/24 1	0:05 04/18/24 07:31	1
o-Terphenyl	137	S1+	70 - 130	04/17/24 1	0:05 04/18/24 07:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 78460

Analysis Batch: 78551 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1086 109 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1008 101 mg/Kg 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-78460/3-A

Matrix: Solid

Analysis Batch: 78551

Prep Type: Total/NA

Prep Batch: 78460

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1122		mg/Kg		112	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130	4	20

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 104 70 - 130 o-Terphenyl 110 70 - 130

Lab Sample ID: 880-42339-1 MS

Matrix: Solid

Analysis Batch: 78551

Client Sample ID: T-1 (0-1')

Prep Type: Total/NA

Prep Batch: 78460

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	888.0		mg/Kg		86	70 - 130	
Diesel Range Organics (Over	<50.0	U	998	1065		mg/Kg		105	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	107		70 - 130

Client: Carmona Resources Project/Site: Freedom State 36 SWD Job ID: 880-42339-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-42339-1 MSD Client Sample ID: T-1 (0-1')

Matrix: Solid

Prep Type: Total/NA Prep Batch: 78460

Analysis Batch: 78551 Sample Sample Spike MSD MSD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 998 859.7 mg/Kg 83 70 - 130 3 20 (GRO)-C6-C10 998 Diesel Range Organics (Over <50.0 U 1051 mg/Kg 103 70 - 130

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	104		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-78454/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78491

мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			04/17/24 17:41	1

Lab Sample ID: LCS 880-78454/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78491

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	244.2		mg/Kg		98	90 - 110	

Lab Sample ID: LCSD 880-78454/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78491

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	242.5		mg/Kg		97	90 - 110	1	20	

Lab Sample ID: 880-42339-1 MS Client Sample ID: T-1 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78491

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	7190		5000	11910		mg/Kg		94	90 - 110	-

Lab Sample ID: 880-42339-1 MSD Client Sample ID: T-1 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78491

Alialysis Datcii. 10431											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	7190		5000	11800		mg/Kg		92	90 - 110	1	20

QC Sample Results

Client: Carmona Resources Job ID: 880-42339-1 SDG: Eddy County, New Mexico Project/Site: Freedom State 36 SWD

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-42339-14 MS Client Sample ID: T4 (2.0')

Matrix: Solid Prep Type: Soluble Analysis Batch: 78491

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits Chloride 5.78 249 241.6 mg/Kg 95 90 - 110

Lab Sample ID: 880-42339-14 MSD Client Sample ID: T4 (2.0')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 78491 Sample Sample Spike MSD MSD %Rec RPD

Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 5.78 249 243.6 mg/Kg 96 90 - 110 20

QC Association Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1 SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 78383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-78383/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 78438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42339-1	T-1 (0-1')	Total/NA	Solid	8021B	78474
880-42339-2	T-1 (1.5')	Total/NA	Solid	8021B	78474
880-42339-4	T-2 (0-1')	Total/NA	Solid	8021B	78474
880-42339-5	T-2 (1.5')	Total/NA	Solid	8021B	78474
880-42339-6	T-2 (2.0')	Total/NA	Solid	8021B	78474
880-42339-8	T-3 (0-1')	Total/NA	Solid	8021B	78474
880-42339-9	T-3 (1.5')	Total/NA	Solid	8021B	78474
880-42339-10	T-3 (2.0)	Total/NA	Solid	8021B	78474
880-42339-12	T4 (0-1')	Total/NA	Solid	8021B	78474
880-42339-13	T4 (1.5')	Total/NA	Solid	8021B	78474
880-42339-14	T4 (2.0')	Total/NA	Solid	8021B	78474
MB 880-78383/5-A	Method Blank	Total/NA	Solid	8021B	78383
MB 880-78474/5-A	Method Blank	Total/NA	Solid	8021B	78474
LCS 880-78474/1-A	Lab Control Sample	Total/NA	Solid	8021B	78474
LCSD 880-78474/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	78474
880-42339-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	78474
880-42339-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	78474

Prep Batch: 78474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-42339-1	T-1 (0-1')	Total/NA	Solid	5035	
880-42339-2	T-1 (1.5')	Total/NA	Solid	5035	
880-42339-4	T-2 (0-1')	Total/NA	Solid	5035	
880-42339-5	T-2 (1.5')	Total/NA	Solid	5035	
880-42339-6	T-2 (2.0')	Total/NA	Solid	5035	
880-42339-8	T-3 (0-1')	Total/NA	Solid	5035	
880-42339-9	T-3 (1.5')	Total/NA	Solid	5035	
880-42339-10	T-3 (2.0)	Total/NA	Solid	5035	
880-42339-12	T4 (0-1')	Total/NA	Solid	5035	
880-42339-13	T4 (1.5')	Total/NA	Solid	5035	
880-42339-14	T4 (2.0')	Total/NA	Solid	5035	
MB 880-78474/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-78474/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-78474/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-42339-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-42339-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 78680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42339-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-42339-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-42339-4	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-42339-5	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-42339-6	T-2 (2.0')	Total/NA	Solid	Total BTEX	
880-42339-8	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-42339-9	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-42339-10	T-3 (2.0)	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 78680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42339-12	T4 (0-1')	Total/NA	Solid	Total BTEX	
880-42339-13	T4 (1.5')	Total/NA	Solid	Total BTEX	
880-42339-14	T4 (2.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 78460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-42339-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-42339-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-42339-4	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-42339-5	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-42339-6	T-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-42339-8	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-42339-9	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-42339-10	T-3 (2.0)	Total/NA	Solid	8015NM Prep	
880-42339-12	T4 (0-1')	Total/NA	Solid	8015NM Prep	
880-42339-13	T4 (1.5')	Total/NA	Solid	8015NM Prep	
880-42339-14	T4 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-78460/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-78460/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-78460/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-42339-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-42339-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 78551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42339-1	T-1 (0-1')	Total/NA	Solid	8015B NM	78460
880-42339-2	T-1 (1.5')	Total/NA	Solid	8015B NM	78460
880-42339-4	T-2 (0-1')	Total/NA	Solid	8015B NM	78460
880-42339-5	T-2 (1.5')	Total/NA	Solid	8015B NM	78460
880-42339-6	T-2 (2.0')	Total/NA	Solid	8015B NM	78460
880-42339-8	T-3 (0-1')	Total/NA	Solid	8015B NM	78460
880-42339-9	T-3 (1.5')	Total/NA	Solid	8015B NM	78460
880-42339-10	T-3 (2.0)	Total/NA	Solid	8015B NM	78460
880-42339-12	T4 (0-1')	Total/NA	Solid	8015B NM	78460
880-42339-13	T4 (1.5')	Total/NA	Solid	8015B NM	78460
880-42339-14	T4 (2.0')	Total/NA	Solid	8015B NM	78460
MB 880-78460/1-A	Method Blank	Total/NA	Solid	8015B NM	78460
LCS 880-78460/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	78460
LCSD 880-78460/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	78460
880-42339-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	78460
880-42339-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	78460

Analysis Batch: 78758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42339-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-42339-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-42339-4	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-42339-5	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-42339-6	T-2 (2.0')	Total/NA	Solid	8015 NM	

Eurofins Midland

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QC Association Summary

Client: Carmona Resources Project/Site: Freedom State 36 SWD Job ID: 880-42339-1

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 78758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42339-8	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-42339-9	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-42339-10	T-3 (2.0)	Total/NA	Solid	8015 NM	
880-42339-12	T4 (0-1')	Total/NA	Solid	8015 NM	
880-42339-13	T4 (1.5')	Total/NA	Solid	8015 NM	
880-42339-14	T4 (2.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 78454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42339-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-42339-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-42339-4	T-2 (0-1')	Soluble	Solid	DI Leach	
880-42339-5	T-2 (1.5')	Soluble	Solid	DI Leach	
880-42339-6	T-2 (2.0')	Soluble	Solid	DI Leach	
880-42339-8	T-3 (0-1')	Soluble	Solid	DI Leach	
880-42339-9	T-3 (1.5')	Soluble	Solid	DI Leach	
880-42339-10	T-3 (2.0)	Soluble	Solid	DI Leach	
880-42339-12	T4 (0-1')	Soluble	Solid	DI Leach	
880-42339-13	T4 (1.5')	Soluble	Solid	DI Leach	
880-42339-14	T4 (2.0')	Soluble	Solid	DI Leach	
MB 880-78454/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78454/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78454/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-42339-1 MS	T-1 (0-1')	Soluble	Solid	DI Leach	
880-42339-1 MSD	T-1 (0-1')	Soluble	Solid	DI Leach	
880-42339-14 MS	T4 (2.0')	Soluble	Solid	DI Leach	
880-42339-14 MSD	T4 (2.0')	Soluble	Solid	DI Leach	

Analysis Batch: 78491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42339-1	T-1 (0-1')	Soluble	Solid	300.0	78454
880-42339-2	T-1 (1.5')	Soluble	Solid	300.0	78454
880-42339-4	T-2 (0-1')	Soluble	Solid	300.0	78454
880-42339-5	T-2 (1.5')	Soluble	Solid	300.0	78454
880-42339-6	T-2 (2.0')	Soluble	Solid	300.0	78454
880-42339-8	T-3 (0-1')	Soluble	Solid	300.0	78454
880-42339-9	T-3 (1.5')	Soluble	Solid	300.0	78454
880-42339-10	T-3 (2.0)	Soluble	Solid	300.0	78454
880-42339-12	T4 (0-1')	Soluble	Solid	300.0	78454
880-42339-13	T4 (1.5')	Soluble	Solid	300.0	78454
880-42339-14	T4 (2.0')	Soluble	Solid	300.0	78454
MB 880-78454/1-A	Method Blank	Soluble	Solid	300.0	78454
LCS 880-78454/2-A	Lab Control Sample	Soluble	Solid	300.0	78454
LCSD 880-78454/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78454
880-42339-1 MS	T-1 (0-1')	Soluble	Solid	300.0	78454
880-42339-1 MSD	T-1 (0-1')	Soluble	Solid	300.0	78454
880-42339-14 MS	T4 (2.0')	Soluble	Solid	300.0	78454
880-42339-14 MSD	T4 (2.0')	Soluble	Solid	300.0	78454

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Client Sample ID: T-1 (0-1') Lab Sample ID: 880-42339-1

Matrix: Solid

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/17/24 22:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/17/24 22:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 09:57	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	78491	04/17/24 18:00	SMC	EET MID

Client Sample ID: T-1 (1.5')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 78474 Total/NA Prep 5.03 g 5 mL 04/17/24 11:00 AA EET MID Total/NA 8021B 5 mL 04/17/24 23:02 **EET MID** Analysis 1 5 mL 78438 MNR Total/NA Total BTEX 78680 04/17/24 23:02 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 78758 04/18/24 10:59 SM **EET MID** Total/NA 78460 04/17/24 10:05 Prep 8015NM Prep 10.04 g 10 mL FΙ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 78551 04/18/24 10:59 SM **EET MID** Soluble 78454 04/17/24 09:41 Leach DI Leach 4.98 g 50 mL SA EET MID Soluble Analysis 300.0 50 mL 50 mL 78491 04/17/24 18:19 SMC **EET MID**

Client Sample ID: T-2 (0-1')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/17/24 23:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/17/24 23:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 11:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	78491	04/17/24 18:25	SMC	EET MID

Client Sample ID: T-2 (1.5')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/17/24 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/17/24 23:43	SM	EET MID

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1.5')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54 Lab Sample ID: 880-42339-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			78758	04/18/24 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 11:42	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78491	04/17/24 18:32	SMC	EET MID

Lab Sample ID: 880-42339-6

Client Sample ID: T-2 (2.0')
Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

ab Sample ID: 880-42339-6

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/18/24 00:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/18/24 00:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 12:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 12:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78491	04/17/24 18:38	SMC	EET MID

Client Sample ID: T-3 (0-1')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-8

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/18/24 00:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/18/24 00:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 12:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	78491	04/17/24 18:57	SMC	EET MID

Client Sample ID: T-3 (1.5')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab	Sample	ID:	880-42339-9
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Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/18/24 00:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/18/24 00:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 12:46	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	78460 78551	04/17/24 10:05 04/18/24 12:46	EL SM	EET MID

Eurofins Midland

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Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1.5')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-9

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78491	04/17/24 19:03	SMC	EET MID

Client Sample ID: T-3 (2.0) Lab Sample ID: 880-42339-10

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/18/24 01:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/18/24 01:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 13:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 13:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78491	04/17/24 19:10	SMC	EET MID

Client Sample ID: T4 Lab Sample ID: 880-42339-12

Date Collected: 04/16/24 00:00

Matrix: Solid

Date Received: 04/17/24 08:54

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 78474 04/17/24 11:00 AA **EET MID** 8021B Total/NA 5 mL 5 mL 78438 04/18/24 01:25 **EET MID** Analysis 1 MNR Total/NA Analysis Total BTEX 1 78680 04/18/24 01:25 SM **EET MID** Total/NA Analysis 8015 NM 1 78758 04/18/24 13:28 SM **EET MID** Total/NA Prep 8015NM Prep 10.06 g 10 mL 78460 04/17/24 10:05 EL EET MID Total/NA Analysis **EET MID** 8015B NM 1 uL 1 uL 78551 04/18/24 13:28 SM Soluble Leach DI Leach 4.97 g 50 mL 78454 04/17/24 09:41 SA EET MID Soluble Analysis 300.0 5 50 mL 50 mL 78491 04/17/24 19:16 SMC **EET MID**

Client Sample ID: T4 (1.5') Lab Sample ID: 880-42339-13

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/18/24 01:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/18/24 01:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 13:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 13:49	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78491	04/17/24 19:22	SMC	EET MID

Lab Chronicle

Client: Carmona Resources Job ID: 880-42339-1

Project/Site: Freedom State 36 SWD SDG: Eddy County, New Mexico

Client Sample ID: T4 (2.0') Lab Sample ID: 880-42339-14 Date Collected: 04/16/24 00:00 Matrix: Solid

Date Received: 04/17/24 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/18/24 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/18/24 03:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 14:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	78454	04/17/24 09:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78491	04/17/24 19:29	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-42339-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
	are included in this report, but ses not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42339-1

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42339-1	T-1 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-2	T-1 (1.5')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-4	T-2 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-5	T-2 (1.5')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-6	T-2 (2.0')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-8	T-3 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-9	T-3 (1.5')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-10	T-3 (2.0)	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-12	T4 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-13	T4 (1.5')	Solid	04/16/24 00:00	04/17/24 08:54
880-42339-14	T4 (2.0')	Solid	04/16/24 00:00	04/17/24 08:54

ain of Custody	5	1	Drownfields RC Dperfund		☐ST/UST ☐RRP ☐Level IV ☐	ADaPT ☐ Other	Proconvotive Codes	OH rateWIO ON each				0		H Na.S.O. NaSO.	Zn Acetate+NaOH Zn	NaOH+Ascorbic Acid SAPC		Sample Comments			×				×				, Date/Time	DC3 HPL1
880-42339 Chain of Custody			ST PRP		Reporting Level II CLevel III	Deliverables EDD	JEST																						Received by (Signature)	
		200					ANALYSIS REQUEST																						Recei	
Chain of Clistoc	occinoso Decome	Calliona Resour						Pres.		(O8	SJ (**)	ORO	- COS	LEX :) WS	108		Cont	× × ×	1 × ×	1	1 × ×	1 × ×	1 × × ×		1 × × ×	1 × × ×		Date/Time	
generic value (mg)	Rill for differents	Cilinated (ii dilinated ii)	Company Name.	Address	City, State ZIP:		Turn Around	45	72 hr			Yes No	1 KA), "	6	0	Grab/			9	<u>ග</u>		_ව	9	ŋ	9	9			
						Email	Tun	Routine	Due Date			No Wet Ice.	er ID:	Factor	e Reading	Corrected Temperature		<i>,</i>	×	×	×	×	×	×	×	×	×		ıre)	
							te 36 SWD	48	New Mexico	k AT		Yes	Thermometer ID:			Corrected 7		te Time	2024	2024	2024	2024	2024	2024	2024	2024	2024		Relinquished by (Signature)	
i	Ashton Thielke	Carmona Basania	Unid Resources	310 vv wall St Ste 500	Midland, TX 79701	432-813-8988	Freedom State 36 SWD	2334	Eddy County, New Mexico	GPJ & AT		Fermy Blank.	No Xes No	Yes No NA	Yes No\ N/A	<i>!</i>	-		4 16 2024	4 16 2024	4 16 2024	4 16 2024	4 16 2024	4 16 2024	4 16 2024	4 16 2024	4 16 2024		Relinqui)
Released to Imaging:	Project Manager	Company Name:	Address.	Address.	ate ZIP:	Phone: 432-8	Project Name	Project Number	Project Location	Sampler's Name	PO#	SAMPLE RECEIPT	Received Intact:	Cooler Custody Seals.	Sample Custody Seals.	Total Containers.	21	Sample Identification	1-1 (0-1.)	T-1 (15)	T-1 (2 0')	T-2 (0-1')	T-2 (15)	T-2 (2 0')	T-2 (3 0')	T-3 (0-1')	T-3 (1 5)	Comments.	My S	4/- 9/20

Work Order No: _

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Address.	310 W Wall St Ste 500	te 500			Address.							State	State of Project:	- :			
City, State ZIP	Midland, TX 79701	01			City, State ZIP							Repor	Reporting Level III ST/UST	Tevel III	∏ST/U	IST TRRP	Level IV
Phone.	432-813-8988			Email.								Delive	Deliverables EDD		_ ADaPT □		
31 Project Name	Freedo	Freedom State 36 SM/D	CIVIO	11.5	A												
Project Number	noon	Social State Social	0,40	Lini	rum Around	Pre	· S	L		AN -	ANALYSIS REQUEST	COUEST			1	Preserv	Preservative Codes
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Project Location	Eddy Co	Eddy County, New Mexico	Vexico	Due Date	72 hr											Cool Cool	MeOH Me
Sampler's Name		GPJ & AT						(ОЯ								HCI HC	NO INCOME
PO#:						· S.		W +								2 2 2	NICON IN
SAMPLE RECEIPT		Temp Blank	Yes No	Wet Ice.	Yes	Seter		ОЫО								12504. 11 ₂	NaOn Na
Received Intact:			Thermometer ID		İ	T	1001		300							H3PO4 HP	
Cooler Custody Seals.	Ę.	A/A	Correction Factor)r		T T			apue						ИОН	Nambo Nabis	. م
Sample Custody Sea	ils. Yes No	N/A	Temperature Reading	adina		Ī	T8									Na ₂ o ₂ O ₃ NaoO ₃	3.
Total Containers			Corrected Temperature.	erature.											<u> </u>	Zn Acetate+NaOH Zn	DH Zu
32							7	8 H								NaOH+Ascorbic Acid SAPC	Acid SAPC
Sample Identification	rtification	Date	Time	Soil	Water	Grab/ # of Comp Cont		IGT						,	<u> </u>	Sample	Sample Comments
C T-3 (2 0)	(,0	4 16 2024		×		G	×	×	×	<u> </u>							
T-3 (3 0')	(0,)	4 16 2024		×		9									×		
T-4 (0-1')	1-1)	4 16 2024		×		G	×	×	×	-					1		
T-4 (15')	5')	4 16 2024		×		G	×	×	×								
T-4 (2 0')	,0,	4 16 2024		×		9	T	┼	×	+	1	1		+	1		
T-4 (3 0')	(0)	4 16 2024		×		0	+	+							×		
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Comments:																	
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1/19/2 0																	1
24																	

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-42339-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

Login Number: 42339 List Number: 1

Creator: Vasquez, Julisa

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

Eurofins Midland

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/19/2024 2:33:39 PM

JOB DESCRIPTION

Freedom State 36 SWD Eddy County, New Mwxico

JOB NUMBER

880-42342-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 4/19/2024 2:33:39 PM

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

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Client: Carmona Resources Project/Site: Freedom State 36 SWD Laboratory Job ID: 880-42342-1 SDG: Eddy County, New Mwxico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-42342-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mwxico

Qualifiers

GC VOA

Qualifier Qualifier Description

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

GC Semi VOA

Qualifier Qualifier Description

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

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Job ID: 880-42342-1

Case Narrative

Client: Carmona Resources Project: Freedom State 36 SWD

Eurofins Midland Job ID: 880-42342-1

> Job Narrative 880-42342-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 4/17/2024 8:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-1') (880-42342-1), H-2 (0-1') (880-42342-2), H-3 (0-1') (880-42342-3), H-4 (0-1') (880-42342-4), H-5 (0-1') (880-42342-5), H-6 (0-1') (880-42342-6) and H-7 (0-1') (880-42342-7).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-78471 and analytical batch 880-78470 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-6 (0-1') (880-42342-6) and (880-42296-A-61-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-78460 and analytical batch 880-78551 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-1') (880-42342-1), H-3 (0-1') (880-42342-3), H-4 (0-1') (880-42342-4) and H-6 (0-1') (880-42342-6). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-78588 and analytical batch 880-78650 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

H-1 (0-1') (880-42342-1), H-2 (0-1') (880-42342-2) and H-3 (0-1') (880-42342-3)

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

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Client Sample ID: H-1 (0-1') Lab Sample ID: 880-42342-1 Date Collected: 04/16/24 00:00

Matrix: Solid

Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 21:34	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 21:34	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 21:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/24 10:44	04/17/24 21:34	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 21:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/24 10:44	04/17/24 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/17/24 10:44	04/17/24 21:34	1
1,4-Difluorobenzene (Surr)	111		70 - 130				04/17/24 10:44	04/17/24 21:34	1
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/24 21:34	1
Method: SW846 8015 NM - Diese						_			B.: E
Analyte		Qualifier	GC) RL 50.0	MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed 04/18/24 15:08	
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	Qualifier U	RL 50.0		Unit mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 50.0		mg/Kg		<u> </u>	04/18/24 15:08	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	750.0 (GC)		mg/Kg		Prepared	04/18/24 15:08 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05	04/18/24 15:08 Analyzed 04/18/24 15:08 04/18/24 15:08	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg		Prepared 04/17/24 10:05	04/18/24 15:08 Analyzed 04/18/24 15:08	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05	04/18/24 15:08 Analyzed 04/18/24 15:08 04/18/24 15:08	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05	04/18/24 15:08 Analyzed 04/18/24 15:08 04/18/24 15:08 04/18/24 15:08	Dil Fac Dil Fac 1 Dil Fac 1 1 Dil Fac 1

Client Sample ID: H-2 (0-1') Lab Sample ID: 880-42342-2

RL

5.02

MDL Unit

mg/Kg

D

Prepared

Analyzed

04/18/24 19:39

Dil Fac

Matrix: Solid

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

83.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/24 10:44	04/17/24 21:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/24 10:44	04/17/24 21:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/24 10:44	04/17/24 21:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/24 10:44	04/17/24 21:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/24 10:44	04/17/24 21:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/24 10:44	04/17/24 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				04/17/24 10:44	04/17/24 21:54	1
1,4-Difluorobenzene (Surr)	114		70 - 130				04/17/24 10:44	04/17/24 21:54	1

Eurofins Midland

Released to Imaging: 9/10/2024 10:46:31 AM

Client Sample Results

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

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

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/17/24 21:54	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/24 15:29	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 15:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 15:29	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				04/17/24 10:05	04/18/24 15:29	1
o-Terphenyl	113		70 - 130				04/17/24 10:05	04/18/24 15:29	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		5.01		mg/Kg			04/18/24 19:44	

Client Sample ID: H-3 (0-1') Lab Sample ID: 880-42342-3 Date Collected: 04/16/24 00:00 **Matrix: Solid**

Date Received: 04/17/24 08:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 22:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 22:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 22:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/17/24 10:44	04/17/24 22:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 22:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/17/24 10:44	04/17/24 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/17/24 10:44	04/17/24 22:15	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/17/24 10:44	04/17/24 22:15	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/24 22:15	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/18/24 15:51	1

Eurofins Midland

Analyzed

04/18/24 15:51

04/18/24 15:51

RL

50.1

50.1

MDL Unit

mg/Kg

mg/Kg

Prepared

04/17/24 10:05

04/17/24 10:05

Result Qualifier

<50.1 U

<50.1 U

Dil Fac

Analyte

C10-C28)

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Client Sample ID: H-3 (0-1')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/17/24 10:05	04/18/24 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			04/17/24 10:05	04/18/24 15:51	1
o-Terphenyl	120		70 - 130			04/17/24 10:05	04/18/24 15:51	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solub	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03		mg/Kg			04/18/24 19:48	1

Client Sample ID: H-4 (0-1')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-4

Matrix: Solid

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 22:35	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 22:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 22:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/24 10:44	04/17/24 22:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 22:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/24 10:44	04/17/24 22:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				04/17/24 10:44	04/17/24 22:35	1
1,4-Difluorobenzene (Surr)	111		70 - 130				04/17/24 10:44	04/17/24 22:35	1

Method: TAL SOP Total BTEX -	Total BTEX Calculation						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg				04/17/24 22:35	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U —	50.0		mg/Kg			04/18/24 16:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 16:12	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 16:12	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	04/17/24 10:05	04/18/24 16:12	1
o-Terphenyl	120		70 - 130	04/17/24 10:05	04/18/24 16:12	1

	hromatography - So	oluble					
Analyte	Result Qualifie	r RL	MDL U	nit D	Prepared	Analyzed	Dil Fac
Chloride	65.5	4.98	m	g/Kg		04/18/24 19:53	1

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42342-1 SDG: Eddy County, New Mwxico

Lab Sample ID: 880-42342-5

Matrix: Solid

Client Sample ID: H-5 (0-1')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 22:56	
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 22:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/24 10:44	04/17/24 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 22:56	,
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/24 10:44	04/17/24 22:56	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				04/17/24 10:44	04/17/24 22:56	
1,4-Difluorobenzene (Surr)	108		70 - 130				04/17/24 10:44	04/17/24 22:56	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/17/24 22:56	
Method: SW846 8015 NM - Diese	l Range Organ	. , ,	•						
: Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	l Range Organ	Qualifier	•	MDL		<u>D</u>	Prepared	Analyzed 04/18/24 16:33	
Method: SW846 8015 NM - Diese Analyte Total TPH	Range Organ Result <49.8	Qualifier U	RL 49.8	MDL	Unit	<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Range Organ Result <49.8 sel Range Organ	Qualifier U	RL 49.8		Unit mg/Kg		<u> </u>	04/18/24 16:33	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Range Organ Result <49.8 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)		Unit mg/Kg	<u>D</u>	Prepared	04/18/24 16:33 Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result <49.8 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.8		Unit mg/Kg		<u> </u>	04/18/24 16:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	Result 49.8 Sel Range Organ Result 49.8 49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 04/17/24 10:05	04/18/24 16:33 Analyzed 04/18/24 16:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)		Unit mg/Kg		Prepared	04/18/24 16:33 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 49.8 Sel Range Organ Result 49.8 49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 04/17/24 10:05	04/18/24 16:33 Analyzed 04/18/24 16:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 49.8 Sel Range Organ Result 49.8 49.8 49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05	04/18/24 16:33 Analyzed 04/18/24 16:33 04/18/24 16:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result 49.8 Sel Range Organ Result <49.8 <49.8 <49.8 <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05	04/18/24 16:33 Analyzed 04/18/24 16:33 04/18/24 16:33 04/18/24 16:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 49.8 Result 49.8 Sel Range Orga Result 49.8 49.8 49.8 %Recovery	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05 04/17/24 10:05 Prepared	04/18/24 16:33 Analyzed 04/18/24 16:33 04/18/24 16:33 04/18/24 16:33 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 49.8 Sel Range Organ Result <49.8 <49.8 <49.8 <8ecovery 125 110	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05 04/17/24 10:05 Prepared 04/17/24 10:05	04/18/24 16:33 Analyzed 04/18/24 16:33 04/18/24 16:33 04/18/24 16:33 Analyzed 04/18/24 16:33	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result 49.8 Sel Range Organ Result <49.8 <49.8 <49.8 <49.8 %Recovery 125 110 Chromatograp	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/24 10:05 04/17/24 10:05 04/17/24 10:05 Prepared 04/17/24 10:05	04/18/24 16:33 Analyzed 04/18/24 16:33 04/18/24 16:33 04/18/24 16:33 Analyzed 04/18/24 16:33	Dil Fac

Client Sample ID: H-6 (0-1') Lab Sample ID: 880-42342-6 Date Collected: 04/16/24 00:00 **Matrix: Solid**

Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/17/24 10:44	04/17/24 23:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/17/24 10:44	04/17/24 23:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/17/24 10:44	04/17/24 23:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/17/24 10:44	04/17/24 23:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/17/24 10:44	04/17/24 23:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/17/24 10:44	04/17/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				04/17/24 10:44	04/17/24 23:16	1
1.4-Difluorobenzene (Surr)	120		70 - 130				04/17/24 10:44	04/17/24 23:16	1

Eurofins Midland

4/19/2024

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Client Sample ID: H-6 (0-1') Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Lab Sample ID: 880-42342-6

Matrix: Solid

١	Method: TAL SOP Total BTE	.X - Total BTEX Gald	Julation						
١	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Į	Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/24 23:16

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (G0	C)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7 U	49.7	mg/Kg			04/18/24 16:55	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 16:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 16:55	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				04/17/24 10:05	04/18/24 16:55	1
o-Terphenvl	119		70 - 130				04/17/24 10:05	04/18/24 16:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	. D	Prepared	Analyzed	Dil Fac
l	Chloride	61.0	4.99	mg/	Kg		04/18/24 20:13	1

Client Sample ID: H-7 (0-1') Lab Sample ID: 880-42342-7 Date Collected: 04/16/24 00:00 **Matrix: Solid**

Date Received: 04/17/24 08:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 23:36	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 23:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 23:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/24 10:44	04/17/24 23:36	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/17/24 10:44	04/17/24 23:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/24 10:44	04/17/24 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				04/17/24 10:44	04/17/24 23:36	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	119 - Total BTEX Cald	culation	70 - 130				04/17/24 10:44	04/17/24 23:36	1
Method: TAL SOP Total BTEX -	- Total BTEX Cald	Qualifier	RL	MDL	Unit	<u>D</u>	04/17/24 10:44 Prepared	Analyzed	•
- ´	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			•
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX -	- Total BTEX Calc Result <	Qualifier U	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies	- Total BTEX Calc Result <	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 04/17/24 23:36	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	- Total BTEX Calc Result <	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.7		mg/Kg		Prepared	Analyzed 04/17/24 23:36 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Di	- Total BTEX Calc Result <0.00398 sel Range Organ Result <49.7	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.7	MDL	mg/Kg		Prepared	Analyzed 04/17/24 23:36 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result <0.00398 sel Range Organ Result <49.7	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 49.7	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/17/24 23:36 Analyzed 04/18/24 17:16	Dil Fac Dil Fac

Client Sample Results

Client: Carmona Resources Project/Site: Freedom State 36 SWD

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Client Sample ID: H-7 (0-1')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54 Lab Sample ID: 880-42342-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/17/24 10:05	04/18/24 17:16	1
o-Terphenyl	94		70 - 130				04/17/24 10:05	04/18/24 17:16	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.3		5.04		mg/Kg			04/18/24 20:27	1

Surrogate Summary

Client: Carmona Resources

Job ID: 880-42342-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mwxico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-41774-A-6-A MB	Method Blank	178 S1+	123	
880-42296-A-61-C MS	Matrix Spike	114	105	
880-42296-A-61-D MSD	Matrix Spike Duplicate	101	94	
880-42342-1	H-1 (0-1')	110	111	
880-42342-2	H-2 (0-1')	111	114	
880-42342-3	H-3 (0-1')	119	109	
880-42342-4	H-4 (0-1')	120	111	
880-42342-5	H-5 (0-1')	119	108	
880-42342-6	H-6 (0-1')	139 S1+	120	
880-42342-7	H-7 (0-1')	123	119	
LCS 880-78471/1-A	Lab Control Sample	105	97	
LCSD 880-78471/2-A	Lab Control Sample Dup	104	101	
MB 880-78471/5-A	Method Blank	158 S1+	116	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
42339-A-1-E MS	Matrix Spike	125	107	
42339-A-1-F MSD	Matrix Spike Duplicate	123	104	
42342-1	H-1 (0-1')	148 S1+	132 S1+	
2342-2	H-2 (0-1')	124	113	
2342-3	H-3 (0-1')	136 S1+	120	
12342-4	H-4 (0-1')	133 S1+	120	
2342-5	H-5 (0-1')	125	110	
2342-6	H-6 (0-1')	131 S1+	119	
2342-7	H-7 (0-1')	103	94	
880-78460/2-A	Lab Control Sample	100	106	
0 880-78460/3-A	Lab Control Sample Dup	104	110	
880-78460/1-A	Method Blank	154 S1+	137 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Project/Site: Freedom State 36 SWD

Client: Carmona Resources

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-41774-A-6-A MB

Matrix: Solid

Analysis Batch: 78470

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 78471

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 20:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 20:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 20:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/24 10:44	04/17/24 20:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 20:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/24 10:44	04/17/24 20:24	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Prepared Analyzed Dil Fac 04/17/24 10:44 04/17/24 20:24 04/17/24 10:44 04/17/24 20:24

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 78471

Lab Sample ID: MB 880-78471/5-A **Matrix: Solid**

Analysis Batch: 78470

MR MR

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 15:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 15:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 15:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/24 10:44	04/17/24 15:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/24 10:44	04/17/24 15:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/24 10:44	04/17/24 15:04	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130	04/17/24 10:44	04/17/24 15:04	1
1,4-Difluorobenzene (Surr)	116		70 - 130	04/17/24 10:44	04/17/24 15:04	1

Lab Sample ID: LCS 880-78471/1-A

Matrix: Solid

Analysis Batch: 78470

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 78471

Spike LCS LCS Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.09772 mg/Kg 98 70 - 130 Toluene 0.100 0.09290 mg/Kg 93 70 - 130 Ethylbenzene 0.100 0.1078 mg/Kg 108 70 - 130 0.200 m-Xylene & p-Xylene 0.2292 mg/Kg 115 70 - 130 0.100 0.09997 100 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery 0	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1.4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-78471/2-A

Matrix: Solid

Analysis Batch: 78470

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 78471

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	5	35

QC Sample Results

Job ID: 880-42342-1 Client: Carmona Resources Project/Site: Freedom State 36 SWD SDG: Eddy County, New Mwxico

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

Lab Sample ID: LCSD 880-78471/2-A

Matrix: Solid

Analysis Batch: 78470

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 78471

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1007 70 - 130 35 mg/Kg 101 8 Ethylbenzene 0.100 0.1151 mg/Kg 115 70 - 130 6 35 0.200 m-Xylene & p-Xylene 0.2362 mg/Kg 70 - 130 35 118 3 o-Xylene 0.100 0.1036 mg/Kg 104 70 - 130 35

LCSD LCSD

%Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 104 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: 880-42296-A-61-C MS

Matrix: Solid

Analysis Batch: 78470

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

Prep Batch: 78471

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.08197 <0.00199 0.101 mg/Kg 81 70 - 130 Toluene <0.00199 U 0.101 0.07245 71 70 - 130 mg/Kg Ethylbenzene 0.101 0.07897 70 - 130 <0.00199 U mg/Kg 78 <0.00398 U 0.202 0.1958 96 70 - 130 m-Xylene & p-Xylene mg/Kg 70 - 130 o-Xylene <0.00199 U 0.101 0.09469 mg/Kg 93

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 880-42296-A-61-D MSD

Matrix: Solid

Analysis Batch: 78470

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 78471

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	<0.00199	U	0.0998	0.08894		mg/Kg		89	70 - 130	8	35
	Toluene	<0.00199	U	0.0998	0.07823		mg/Kg		78	70 - 130	8	35
	Ethylbenzene	<0.00199	U	0.0998	0.07609		mg/Kg		75	70 - 130	4	35
	m-Xylene & p-Xylene	<0.00398	U	0.200	0.1832		mg/Kg		91	70 - 130	7	35
	o-Xylene	<0.00199	U	0.0998	0.08407		mg/Kg		84	70 - 130	12	35
ı												

MSD MSD

мв мв

Qualifier

Result

<50.0 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-78460/1-A

Matrix: Solid

Analysis Batch: 78551

Gasoline Range Organics

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

Prepared

04/17/24 10:05

Prep Batch: 78460

Analyzed 04/18/24 07:31

(GRO)-C6-C10

Analyte

Eurofins Midland

RL

50.0

MDL Unit

mg/Kg

Client: Carmona Resources

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

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

Lab Sample ID: MB 880-78460/1-A

Lab Sample ID: LCS 880-78460/2-A

Project/Site: Freedom State 36 SWD

Matrix: Solid

Matrix: Solid

Analysis Batch: 78551

Analysis Batch: 78551

Prep Type: Total/NA

Prep Batch: 78460

Analyte	Result	Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	1	mg/Kg		04/17/24 10:05	04/18/24 07:31	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	ı	mg/Kg		04/17/24 10:05	04/18/24 07:31	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	04/17/24 10:05	04/18/24 07:31	1
o-Terphenyl	137	S1+	70 - 130	04/17/24 10:05	04/18/24 07:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 78460

	Spil	ie LCS	LCS			%Rec	
Analyte	Adde	d Result	Qualifier	Unit	D %Rec	Limits	
Gasoline Range Organics	100	1086		mg/Kg	109	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	100	1008		mg/Kg	101	70 - 130	
C10-C28)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-78460/3-A

Matrix: Solid Analysis Batch: 78551 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 78460

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1122		mg/Kg		112	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1053		mg/Kg		105	70 - 130	4	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-42339-A-1-E MS

Matrix: Solid

Analysis Batch: 78551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 78460

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	888.0		mg/Kg		86	70 - 130
Diesel Range Organics (Over	<50.0	U	998	1065		mg/Kg		105	70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	107		70 - 130

Job ID: 880-42342-1

Client: Carmona Resources Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mwxico

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

Lab Sample ID: 880-42339-A-1-F MSD

Matrix: Solid Analysis Batch: 78551 Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: H-4 (0-1')

Client Sample ID: H-4 (0-1')

Prep Type: Total/NA

Prep Batch: 78460

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 998 859.7 mg/Kg 83 70 - 130 3 20 (GRO)-C6-C10 998 Diesel Range Organics (Over <50.0 U 1051 mg/Kg 103 70 - 130

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	104		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-78588/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78650

мв мв

Analyte Result Qualifier MDL Unit RL Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 04/18/24 18:07

Lab Sample ID: LCS 880-78588/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78650

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	255.7	-	mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-78588/3-A

Matrix: Solid

Analysis Batch: 78650

	Spike	LCSD	LCSD			%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit [0 %Rec	Limits	RPD	Limit	
Chloride	250	256.0		mg/Kg	102	90 - 110	0	20	

Lab Sample ID: 880-42342-4 MS

Matrix: Solid

Analysis Batch: 78650

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	65.5		249	311.6		ma/Ka		99	90 110	

Lab Sample ID: 880-42342-4 MSD

Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 78650											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	65.5		249	312.6		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Carmona Resources

Job ID: 880-42342-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mwxico

GC VOA

Analysis Batch: 78470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42342-1	H-1 (0-1')	Total/NA	Solid	8021B	78471
880-42342-2	H-2 (0-1')	Total/NA	Solid	8021B	78471
880-42342-3	H-3 (0-1')	Total/NA	Solid	8021B	78471
880-42342-4	H-4 (0-1')	Total/NA	Solid	8021B	78471
880-42342-5	H-5 (0-1')	Total/NA	Solid	8021B	78471
880-42342-6	H-6 (0-1')	Total/NA	Solid	8021B	78471
880-42342-7	H-7 (0-1')	Total/NA	Solid	8021B	78471
880-41774-A-6-A MB	Method Blank	Total/NA	Solid	8021B	78471
MB 880-78471/5-A	Method Blank	Total/NA	Solid	8021B	78471
LCS 880-78471/1-A	Lab Control Sample	Total/NA	Solid	8021B	78471
LCSD 880-78471/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	78471
880-42296-A-61-C MS	Matrix Spike	Total/NA	Solid	8021B	78471
880-42296-A-61-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	78471

Prep Batch: 78471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42342-1	H-1 (0-1')	Total/NA	Solid	5035	
880-42342-2	H-2 (0-1')	Total/NA	Solid	5035	
880-42342-3	H-3 (0-1')	Total/NA	Solid	5035	
880-42342-4	H-4 (0-1')	Total/NA	Solid	5035	
880-42342-5	H-5 (0-1')	Total/NA	Solid	5035	
880-42342-6	H-6 (0-1')	Total/NA	Solid	5035	
880-42342-7	H-7 (0-1')	Total/NA	Solid	5035	
880-41774-A-6-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-78471/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-78471/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-78471/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-42296-A-61-C MS	Matrix Spike	Total/NA	Solid	5035	
880-42296-A-61-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 78684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42342-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
880-42342-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
880-42342-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
880-42342-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	
880-42342-5	H-5 (0-1')	Total/NA	Solid	Total BTEX	
880-42342-6	H-6 (0-1')	Total/NA	Solid	Total BTEX	
880-42342-7	H-7 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 78460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42342-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-42342-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-42342-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-42342-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-42342-5	H-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-42342-6	H-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-42342-7	H-7 (0-1')	Total/NA	Solid	8015NM Prep	

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Released to Imaging: 9/10/2024 10:46:31 AM

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QC Association Summary

Client: Carmona Resources

Job ID: 880-42342-1 Project/Site: Freedom State 36 SWD SDG: Eddy County, New Mwxico

GC Semi VOA (Continued)

Prep Batch: 78460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-78460/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-78460/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-78460/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-42339-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-42339-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 78551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42342-1	H-1 (0-1')	Total/NA	Solid	8015B NM	78460
880-42342-2	H-2 (0-1')	Total/NA	Solid	8015B NM	78460
880-42342-3	H-3 (0-1')	Total/NA	Solid	8015B NM	78460
880-42342-4	H-4 (0-1')	Total/NA	Solid	8015B NM	78460
880-42342-5	H-5 (0-1')	Total/NA	Solid	8015B NM	78460
880-42342-6	H-6 (0-1')	Total/NA	Solid	8015B NM	78460
880-42342-7	H-7 (0-1')	Total/NA	Solid	8015B NM	78460
MB 880-78460/1-A	Method Blank	Total/NA	Solid	8015B NM	78460
LCS 880-78460/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	78460
LCSD 880-78460/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	78460
880-42339-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	78460
880-42339-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	78460

Analysis Batch: 78759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42342-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
880-42342-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
880-42342-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
880-42342-4	H-4 (0-1')	Total/NA	Solid	8015 NM	
880-42342-5	H-5 (0-1')	Total/NA	Solid	8015 NM	
880-42342-6	H-6 (0-1')	Total/NA	Solid	8015 NM	
880-42342-7	H-7 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 78588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-42342-1	H-1 (0-1')	Soluble	Solid	DI Leach	
880-42342-2	H-2 (0-1')	Soluble	Solid	DI Leach	
880-42342-3	H-3 (0-1')	Soluble	Solid	DI Leach	
880-42342-4	H-4 (0-1')	Soluble	Solid	DI Leach	
880-42342-5	H-5 (0-1')	Soluble	Solid	DI Leach	
880-42342-6	H-6 (0-1')	Soluble	Solid	DI Leach	
880-42342-7	H-7 (0-1')	Soluble	Solid	DI Leach	
MB 880-78588/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78588/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78588/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-42342-4 MS	H-4 (0-1')	Soluble	Solid	DI Leach	
880-42342-4 MSD	H-4 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 78650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42342-1	H-1 (0-1')	Soluble	Solid	300.0	78588

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QC Association Summary

Client: Carmona Resources

Job ID: 880-42342-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mwxico

HPLC/IC (Continued)

Analysis Batch: 78650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42342-2	H-2 (0-1')	Soluble	Solid	300.0	78588
880-42342-3	H-3 (0-1')	Soluble	Solid	300.0	78588
880-42342-4	H-4 (0-1')	Soluble	Solid	300.0	78588
880-42342-5	H-5 (0-1')	Soluble	Solid	300.0	78588
880-42342-6	H-6 (0-1')	Soluble	Solid	300.0	78588
880-42342-7	H-7 (0-1')	Soluble	Solid	300.0	78588
MB 880-78588/1-A	Method Blank	Soluble	Solid	300.0	78588
LCS 880-78588/2-A	Lab Control Sample	Soluble	Solid	300.0	78588
LCSD 880-78588/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78588
880-42342-4 MS	H-4 (0-1')	Soluble	Solid	300.0	78588
880-42342-4 MSD	H-4 (0-1')	Soluble	Solid	300.0	78588

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Client: Carmona Resources

Project/Site: Freedom State 36 SWD

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

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Lab Sample ID: 880-42342-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	78471	04/17/24 10:44	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78470	04/17/24 21:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78684	04/17/24 21:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			78759	04/18/24 15:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 15:08	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	78588	04/18/24 10:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78650	04/18/24 19:39	SMC	EET MID

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

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 78471 Total/NA Prep 4.97 g 5 mL 04/17/24 10:44 EL EET MID Total/NA 8021B 5 mL 04/17/24 21:54 **EET MID** Analysis 1 5 mL 78470 MNR Total/NA Total BTEX 78684 04/17/24 21:54 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 78759 04/18/24 15:29 SM **EET MID** Total/NA 78460 04/17/24 10:05 EL Prep 8015NM Prep 10.00 g 10 mL EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 78551 04/18/24 15:29 SM **EET MID** Soluble 04/18/24 10:44 Leach DI Leach 4.99 g 50 mL 78588 SMC EET MID Soluble Analysis 300.0 50 mL 50 mL 78650 04/18/24 19:44 SMC **EET MID**

Client Sample ID: H-3 (0-1')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	78471	04/17/24 10:44	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78470	04/17/24 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78684	04/17/24 22:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			78759	04/18/24 15:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 15:51	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	78588	04/18/24 10:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78650	04/18/24 19:48	SMC	EET MID

Client Sample ID: H-4 (0-1')

Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

Lab Sample	ID: 880-42342-4
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Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	78471	04/17/24 10:44	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78470	04/17/24 22:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78684	04/17/24 22:35	SM	EET MID

Eurofins Midland

Matrix: Solid

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Client Sample ID: H-4 (0-1')

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54 Lab Sample ID: 880-42342-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			78759	04/18/24 16:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 16:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	78588	04/18/24 10:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78650	04/18/24 19:53	SMC	EET MID

Lab Sample ID: 880-42342-5

Client Sample ID: H-5 (0-1') Date Collected: 04/16/24 00:00 **Matrix: Solid**

Date Received: 04/17/24 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	78471	04/17/24 10:44	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78470	04/17/24 22:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78684	04/17/24 22:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			78759	04/18/24 16:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 16:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	78588	04/18/24 10:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78650	04/18/24 20:08	SMC	EET MID

Client Sample ID: H-6 (0-1') Lab Sample ID: 880-42342-6

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	78471	04/17/24 10:44	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78470	04/17/24 23:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78684	04/17/24 23:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			78759	04/18/24 16:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	78460	04/17/24 10:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78551	04/18/24 16:55	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	78588	04/18/24 10:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78650	04/18/24 20:13	SMC	EET MID

Client Sample ID: H-7 (0-1') Lab Sample ID: 880-42342-7

Date Collected: 04/16/24 00:00 Date Received: 04/17/24 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	78471	04/17/24 10:44	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78470	04/17/24 23:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78684	04/17/24 23:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			78759	04/18/24 17:16	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.07 g 1 uL	10 mL 1 uL	78460 78551	04/17/24 10:05 04/18/24 17:16	EL SM	EET MID EET MID

Eurofins Midland

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Lab Sample ID: 880-42342-7

Matrix: Solid

Client Sample ID: H-7 (0-1') Date Collected: 04/16/24 00:00

Date Received: 04/17/24 08:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	78588	04/18/24 10:44	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78650	04/18/24 20:27	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-42342-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mwxico

Laboratory: Eurofins Midland

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

Authority	Progra	m	Identification Number	Expiration Date
Texas	NELAF)	T104704400-23-26	06-30-24
,	' '	t the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
for which the agency do	oes not offer certification.			
for which the agency do Analysis Method	pes not offer certification. Prep Method	Matrix	Analyte	
ů ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-42342-1

SDG: Eddy County, New Mwxico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42342-1	H-1 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42342-2	H-2 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42342-3	H-3 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42342-4	H-4 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42342-5	H-5 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42342-6	H-6 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54
880-42342-7	H-7 (0-1')	Solid	04/16/24 00:00	04/17/24 08:54

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											\ .		Page	1 of 1
	Thielke		Bill to: (if different)		armona	Carmona Resources					Work	Order (Work Order Comments	
Company Name	Carmona Resources		Company Name			!		<u>a</u>	rogram	Program UST/PST		Low	Prownfields PRC	Panfind
Address. 310 W \	310 W Wall St Ste 500		Address:					S	State of Project:	roject:	:)			_
City, State ZIP	Midland, TX 79701		City, State ZIP-					<u>«</u>	eporting	Level II	Reporting Level II Level III ST/UST	DST,	UST RRP	□ □Level IV □
Phone: 432-813-8988	-8988	Email							Deliverables	es EDD		АБаРТ 🗆		
Project Name:	Freedom State 36 SWD	Tum	Turn Around				ANALYSIS REQUEST	REQUE	ST				Procor	Prosonvativo Codos
Project Number	2334	Routine	✓ Rush	Pres.									None NO	Ol Water H
Project Location	Eddy County New Mexico	Due Date	72 hr						+	1	1	-		U Water n20
Sampler's Name	GPJ & AT			4	(OR									MeOH Me
#O4		T	(s	IW +		 							HNO. HN
SAMPLE RECEIPT	Temp Blank. Yes No) Wet Ice	(Yes) No	19jə	В	0 0	 						12504: 12 100 H	NaOH Na
Received Intact:	The		IV,	men	1208	e 30	 					p	n3FO4 NF NaHSO, NARIS	Sic
Cooler Custody Seals.	Yes No MA Correction Factor	ctor	6 (ρЧ		bito						ЮН	Na S.O. Naso	2 5
Sample Custody Seals.	Yes No N/A Temperature Reading	Reading	0	····		си	 						7n Acetatot Nacion 7n	30 75 20 75
Orotal Containers.	Corrected Temperature	nperature	\mathcal{C}										NaOH+Acor	NaOH+Ascorbic Acid SADC
Sample Identification			Grab/	# O#	Hd1		 						NaCH TASCO	מור אכום פארום
	Date	200	Water Comp	Cont	L								Sample	Sample Comments
	4 16 2024	×	ව	-	×	×			-	-	-			
H-2 (0-1)	4 16 2024	×	_ග	+	×	×			-					
H-3 (0-1)	4 16 2024	×	ŋ	-	×	×			1					
H-4 (0-1')	4 16 2024	×	O	-	×	×			\vdash		l			
H-5 (0-1')	4 16 2024	×	9	-	×	×			+					
H-6 (0-1')	4 16 2024	×	O	-	×	×	-	1	+			$oxed{\bot}$		
H-7 (0-1')	4 16 2024	×	0	-	×	×			-					
									-			_		
									-					
Comments:														
	Relinguished by: (Signature)	1			Date(Time									
4/19/202)		received of (alguardie)			#	Date/Time
24														

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-42342-1

SDG Number: Eddy County, New Mwxico

List Source: Eurofins Midland

Login Number: 42342 List Number: 1

Creator: Vasquez, Julisa

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

Released to Imaging: 9/10/2024 10:46:31 AM

Report to:
Ashton Thielke







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Carmona Resources

Project Name: Freedom State 36 SWD

Work Order: E407212

Job Number: 24036-0001

Received: 7/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/30/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/30/24

Ashton Thielke 310 West Wall St. Suite 415 Midland, TX 79701

Project Name: Freedom State 36 SWD

Workorder: E407212

Date Received: 7/26/2024 5:00:14AM

Ashton Thielke,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/26/2024 5:00:14AM, under the Project Name: Freedom State 36 SWD.

The analytical test results summarized in this report with the Project Name: Freedom State 36 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

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Raina Schwanz

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

_			-		
ſ	Carmona Resources	Project Name:	Freedom State 36 SWD	Reported:	ĺ
١	310 West Wall St. Suite 415	Project Number:	24036-0001	Reporteu:	ĺ
l	Midland TX, 79701	Project Manager:	Ashton Thielke	07/30/24 15:33	ĺ

Client Sample ID	Lab Sample ID Mat	trix Sampled	Received	Container
Backfill Sample	E407212-01A So	oil 07/24/24	07/26/24	Glass Jar, 2 oz.



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/2024 3:33:48PM

Backfill Sample E407212-01

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2430132
Benzene	ND	0.0250		1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250		1	07/26/24	07/27/24	
Toluene	ND	0.0250		1	07/26/24	07/27/24	
o-Xylene	ND	0.0250		1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500		1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250		1	07/26/24	07/27/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/26/24	07/27/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		07/26/24	07/27/24	
Surrogate: Toluene-d8		102 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2430132
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/26/24	07/27/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/26/24	07/27/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		07/26/24	07/27/24	
Surrogate: Toluene-d8		102 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2430123
Diesel Range Organics (C10-C28)	ND	25.0		1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/26/24	07/27/24	
		125 %	50-200		07/26/24	07/27/24	
Surrogate: n-Nonane							
Surrogate: n-Nonane Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2430133
	ma/ka	ma/ka		Analyst	DT		Batch: 2430133



QC Summary Data

Carmona Resources Project Name: Freedom State 36 SWD Reported:
310 West Wall St. Suite 415 Project Number: 24036-0001
Midland TX, 79701 Project Manager: Ashton Thielke 7/30/2024 3:33:48PM

Midland TX, 79701		Project Manage	r: As	shton Thielke				7/3	0/2024 3:33:48PN
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430132-BLK1)							Prepared: 0	7/26/24 Anal	yzed: 07/26/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			
LCS (2430132-BS1)							Prepared: 0	7/26/24 Anal	yzed: 07/26/24
Benzene	2.48	0.0250	2.50		99.0	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.4	70-130			
Toluene	2.34	0.0250	2.50		93.7	70-130			
o-Xylene	2.47	0.0250	2.50		98.9	70-130			
p,m-Xylene	4.93	0.0500	5.00		98.6	70-130			
Total Xylenes	7.40	0.0250	7.50		98.7	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
Matrix Spike (2430132-MS1)				Source:	E407214-	01	Prepared: 0	7/26/24 Anal	yzed: 07/26/24
Benzene	2.53	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.51	0.0250	2.50	ND	100	45-135			
Toluene	2.38	0.0250	2.50	ND	95.1	48-130			
o-Xylene	2.54	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.60	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			
Matrix Spike Dup (2430132-MSD1)				Source:	E407214-	01	Prepared: 0	7/26/24 Anal	yzed: 07/26/24
Benzene	2.45	0.0250	2.50	ND	98.1	48-131	3.05	23	
Ethylbenzene	2.48	0.0250	2.50	ND	99.2	45-135	1.28	27	
Toluene	2.34	0.0250	2.50	ND	93.5	48-130	1.72	24	
o-Xylene	2.49	0.0250	2.50	ND	99.6	43-135	2.17	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135	1.64	27	
Total Xylenes	7.47	0.0250	7.50	ND	99.6	43-135	1.82	27	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
			0.500		00.6	50 120			



0.500

70-130

0.498

Surrogate: Toluene-d8

QC Summary Data

Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:33:48PM

Nonhalogenated	Organics by	v EPA 8015D	- GRO

Analyst: IY

Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430132-BLK1)							Prepared: 07	7/26/24 An	alyzed: 07/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			
LCS (2430132-BS2)							Prepared: 07	7/26/24 An	alyzed: 07/26/24
Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.0	70-130	<u> </u>		
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			
Matrix Spike (2430132-MS2)				Source:	E407214-0	01	Prepared: 07	7/26/24 An	alyzed: 07/27/24
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0	ND	88.0	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			
Matrix Spike Dup (2430132-MSD2)				Source:	E407214-0	01	Prepared: 07	7/26/24 An	alyzed: 07/27/24
Gasoline Range Organics (C6-C10)	42.3	20.0	50.0	ND	84.5	70-130	3.97	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:33:48PM

,,,,,,									
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430123-BLK1)							Prepared: 0	7/26/24 Anal	yzed: 07/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.3		50.0		115	50-200			
LCS (2430123-BS1)							Prepared: 0	7/26/24 Anal	yzed: 07/26/24
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	59.5		50.0		119	50-200			
Matrix Spike (2430123-MS1)				Source:	E407211-0	02	Prepared: 0	7/26/24 Anal	yzed: 07/26/24
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	62.7		50.0		125	50-200			
Matrix Spike Dup (2430123-MSD1)				Source:	E407211-0	02	Prepared: 0	7/26/24 Anal	yzed: 07/26/24
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132	1.46	20	
Surrogate: n-Nonane	61.9		50.0		124	50-200			



Matrix Spike Dup (2430133-MSD1)

Chloride

297

QC Summary Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701		Project Name: Project Number Project Manage	: 2	Freedom State 3 24036-0001 Ashton Thielke					Reported: 7/30/2024 3:33:48PM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2430133-BLK1)							Prepared: 0	7/26/24 Ar	nalyzed: 07/26/24
Chloride	ND	20.0							
LCS (2430133-BS1)							Prepared: 0	7/26/24 Ar	nalyzed: 07/26/24
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2430133-MS1)				Source:	E407210-	05	Prepared: 0	7/26/24 Ar	nalyzed: 07/26/24
Chloride	292	200	250	ND	117	80-120			

250

200

Source: E407210-05

119

80-120

1.70

ND

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 07/26/24 Analyzed: 07/26/24

20

Definitions and Notes

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke07/30/24 15:33

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



																20 F	, ¥	10:14072 † 24036	
ct Manager:	Ashton Thielke				Bill to: (if	different)		Ca	MON	aR	Sources			ME		Wo	rk Orde	r Comments	
oany Name:	Carmona Reso	urces			Compan	y Name:	The state of	Ì						Program	: UST/PS	ST PR	P [rov	wnfields RC	perfund
ess:	310 W Wall St	Ste 500			Address:							***************************************		State of	Project:				
State ZIP:	Midland, TX 79	701			City, Stat									Reporting	:Level II	Level	III 🗆s	T/UST RP	evel IV
e: ((432) 813-8988			Emai	1: thiel	real	a) carr	iono	Ro	source	s.com			Deliverab	les: EDI		ADa	PT Oth	er:
ct Name:	Freedom.	State 31	SWD	Turi	n Around						-	ANALYSIS	REQU	JEST	4500			Preser	vative Codes
ct Number:	2	334		□ Routine	Rush		Pres. Code						T					None: NO	DI Water: H ₂ 0
ct Location	Eddy Count		Mexico	Due Date:	72 V	۱۲.												Cool: Cool	MeOH: Me
ler's Name:		Č4							+ MRO)									HCL: HC	HNO ₃ : HN
					_		SIS		N + 0									H ₂ S0 ₄ : H ₂	NaOH: Na
IPLE RECEIF	-	p Blank:	Yes No	Wet Ice:	Yes	No	mete	218	DRC	0.00								H₃PO₄: HP	
ved Intact:	(Ye		Thermometer ID				Parameters	BTEX 8021B	80	Chloride 300.0						1	1	NaHSO ₄ : NAI	
r Custody Seals: le Custody Seals			Correction Factor Temperature Re		4			BTE	N (G	hlor								Na ₂ S ₂ O ₃ : Nas	
Containers:	5. 105		Corrected Temp		1			1	TPH 8015M (GRO + DRO									Zn Acetate+N	bic Acid: SAPC
Sample Ident	tification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		ТРН										e Comments
ckfill So	mple	7/24/24		X		Comp	1	X	×	X								Lab#	1
										100									
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manta.																			
ments:																			
Shell state	R	elinquished b	y: (Signature)					Date/	Time		t/\n	0 00	Rece	ived by: (Signatur	re)	-15		Date/Time

Envirotech Analytical Laboratory

Printed: 7/26/2024 9:44:00AM

nstructions: Please take note of any NO checkmarks. f we receive no response concerning these items within 24 hours of	•	•	ecklist (SRC) iples will be ana	1	uested.	
Client: Carmona Resources	Date Received:	07/26/24 05:0	_	·	Work Order ID:	E407212
Phone: (432) 813-6823	Date Logged In:	07/25/24 16:0			Logged In By:	Noe Soto
Email:	Due Date:		00 (2 day TAT)		gg++	
Chain of Custody (COC)						
1. Does the sample ID match the COC?		Yes				
2. Does the number of samples per sampling site location ma	tch the COC	Yes				
3. Were samples dropped off by client or carrier?		Yes	Carrier: C	ourier		
4. Was the COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	<u> </u>	<u> </u>		
Were all samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss		Yes			Commen	ts/Resolution
Sample Turn Around Time (TAT)				Time s	amnled is missir	ng in COC by client.
6. Did the COC indicate standard TAT, or Expedited TAT?		Yes		11110 50	umpica is imissii	ig in coc by onem.
Sample Cooler		37.				
7. Was a sample cooler received?		Yes				
8. If yes, was cooler received in good condition?		Yes				
9. Was the sample(s) received intact, i.e., not broken?		Yes				
10. Were custody/security seals present?		No				
11. If yes, were custody/security seals intact?		NA				
12. Was the sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling		Yes				
13. If no visible ice, record the temperature. Actual sample	temperature: 4°	<u>c</u>				
Sample Container						
14. Are aqueous VOC samples present?		No				
15. Are VOC samples collected in VOA Vials?		NA				
16. Is the head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a trip blank (TB) included for VOC analyses?		NA				
18. Are non-VOC samples collected in the correct containers	:?	Yes				
19. Is the appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Label						
20. Were field sample labels filled out with the minimum inf	ormation:	••				
Sample ID? Date/Time Collected?		Yes	Į			
Collectors name?		Yes No				
Sample Preservation		NO				
21. Does the COC or field labels indicate the samples were p	reserved?	No				
22. Are sample(s) correctly preserved?		NA				
24. Is lab filteration required and/or requested for dissolved i	netals?	No				
Multiphase Sample Matrix						
26. Does the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes, does the COC specify which phase(s) is to be anal		NA				
Subcontract Laboratory	•	••••				
28. Are samples required to get sent to a subcontract laborator	ami?	No				
29. Was a subcontract laboratory specified by the client and i			bcontract Lab	NA.		
• • •	1 30 WIIO.	1411 50	iocomuaci Lao.	. IVA		
Client Instruction						
<u> </u>			 			

Signature of client authorizing changes to the COC or sample disposition.

envirotech Inc.

Report to:
Ashton Thielke







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Carmona Resources

Project Name: Freedom State 36 SWD

Work Order: E407213

Job Number: 24036-0001

Received: 7/26/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 7/30/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/30/24

Ashton Thielke 310 West Wall St. Suite 415 Midland, TX 79701

Project Name: Freedom State 36 SWD

Workorder: E407213

Date Received: 7/26/2024 5:00:14AM

Ashton Thielke,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/26/2024 5:00:14AM, under the Project Name: Freedom State 36 SWD.

The analytical test results summarized in this report with the Project Name: Freedom State 36 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Carmona Resources	Project Name:	Freedom State 36 SWD	Donoutoda
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	07/30/24 13:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1 (1.5')	E407213-01A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-2 (1.5')	E407213-02A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-3 (1.5')	E407213-03A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-4 (1.5')	E407213-04A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-5 (1.5')	E407213-05A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-6 (1.5')	E407213-06A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-7 (1.5')	E407213-07A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-8 (1.5')	E407213-08A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-9 (1.5')	E407213-09A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-10 (1.5')	E407213-10A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-11 (1.5')	E407213-11A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-12 (1.5')	E407213-12A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-13 (1.5')	E407213-13A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-14 (1.5')	E407213-14A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-15 (1.5')	E407213-15A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-16 (1.5')	E407213-16A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-17 (1.5')	E407213-17A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-18 (1.5')	E407213-18A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-19 (1.5')	E407213-19A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-20 (1.5')	E407213-20A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 1:28:53PM

CS-1 (1.5') E407213-01

E40/213-01							
D. Iv			D 1		N		
Result	Limit	Dilution	Prepared	Analyzed	Notes		
mg/kg	mg/kg	Analy	st: BA		Batch: 2430130		
ND	0.0250	1	07/26/24	07/26/24			
ND	0.0250	1	07/26/24	07/26/24			
ND	0.0250	1	07/26/24	07/26/24			
ND	0.0250	1	07/26/24	07/26/24			
ND	0.0500	1	07/26/24	07/26/24			
ND	0.0250	1	07/26/24	07/26/24			
	94.2 %	70-130	07/26/24	07/26/24			
mg/kg	mg/kg	Analy	st: BA		Batch: 2430130		
ND	20.0	1	07/26/24	07/26/24			
	106 %	70-130	07/26/24	07/26/24			
mg/kg	mg/kg	Analy	st: NV		Batch: 2430122		
ND	25.0	1	07/26/24	07/27/24			
ND	50.0	1	07/26/24	07/27/24			
	103 %	50-200	07/26/24	07/27/24			
//	п	A malar	at. WE		Batch: 2430136		
mg/kg	mg/kg	Anary	St. WF		Batch: 2430130		
	ND Mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0 106 % mg/kg MD 25.0 ND 50.0 103 %	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 mg/kg mg/kg Analy ND 20.0 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 103 % 50-200	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 07/26/24 ND 0.0250 1 07/26/24 ND 0.0250 1 07/26/24 ND 0.0500 1 07/26/24 ND 0.0250 1 07/26/24 ND 0.0250 1 07/26/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 07/26/24 ND 50.0 1 07/26/24 ND 50.0 1 07/26/24	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 07/26/24 07/26/24 ND 0.0250 1 07/26/24 07/26/24 ND 0.0250 1 07/26/24 07/26/24 ND 0.0500 1 07/26/24 07/26/24 ND 0.0250 1 07/26/24 07/26/24 ND 0.0250 1 07/26/24 07/26/24 MD 0.0250 1 07/26/24 07/26/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/26/24 07/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 07/26/24 07/27/24 ND 25.0 1 07/26/24 07/27/24 ND 50.0 1 07/26/24 07/27/24 ND 50.0 1 07/26/24		



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-2 (1.5')

E407213-02

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		102 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: WF		Batch: 2430136
Chloride	439	20.0	1	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/2024 1:28:53PM

CS-3 (1.5') E407213-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		109 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 1:28:53PM

CS-4 (1.5') E407213-04

		E-10/213-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		111 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-5 (1.5') E407213-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		103 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-6 (1.5')

E407213-06						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		112 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 1:28:53PM

CS-7 (1.5')

		E407213-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/26/24	
Toluene	ND	0.0250	1	07/26/24	07/26/24	
o-Xylene	ND	0.0250	1	07/26/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/26/24	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	07/26/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/26/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		111 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-8 (1.5')

		E407213-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		112 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2430136
Chloride	218	200	10	07/26/24	07/26/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 1:28:53PM

CS-9 (1.5')

		E407213-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA	Batch: 2430130	
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		108 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-10 (1.5')

		E407213-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		112 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-11 (1.5')

E407213-11

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		116 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2430136
Chloride	502	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-12 (1.5')

		E407213-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		106 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2430136
Chloride	492	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-13 (1.5') E407213-13

		2107210 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		105 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-14 (1.5')

E407213-14

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		117 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-15 (1.5') E407213-15

	2107210 10				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
ND	0.0250	1	07/26/24	07/27/24	
ND	0.0250	1	07/26/24	07/27/24	
ND	0.0250	1	07/26/24	07/27/24	
ND	0.0250	1	07/26/24	07/27/24	
ND	0.0500	1	07/26/24	07/27/24	
ND	0.0250	1	07/26/24	07/27/24	
	94.9 %	70-130	07/26/24	07/27/24	
mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
ND	20.0	1	07/26/24	07/27/24	
	105 %	70-130	07/26/24	07/27/24	
mg/kg	mg/kg	Analy	st: NV		Batch: 2430122
ND	25.0	1	07/26/24	07/27/24	
ND	50.0	1	07/26/24	07/27/24	
	106 %	50-200	07/26/24	07/27/24	
	ma/lea	Δnalve	st· WF		Batch: 2430136
mg/kg	mg/kg	7 thary.	51. 111		Baten. 2430130
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 MB/kg mg/kg MD 20.0 105 % mg/kg ND 25.0 ND 50.0 106 %	Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 MB/kg mg/kg Analy ND 20.0 1 MB/kg mg/kg Analy ND 25.0 1 ND 50.0 1 106 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 07/26/24 ND 0.0250 1 07/26/24 ND 0.0250 1 07/26/24 ND 0.0250 1 07/26/24 ND 0.0500 1 07/26/24 ND 0.0250 1 07/26/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 07/26/24 ND 25.0 1 07/26/24 ND 50.0 1 07/26/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 07/26/24 07/27/24 ND 0.0500 1 07/26/24 07/27/24 ND 0.0250 1 07/26/24 07/27/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/26/24 07/27/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/26/24 07/27/24 mg/kg mg/kg Analyst: NV ND 25.0 1 07/26/24 07/27/24 ND 50.0 1 07/26/24 07/27/24 ND 50.0 1 07/26/24 07/27/24



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-16 (1.5') E407213-16

		2.07210 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		98.1 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2430136
Chloride	335	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-17 (1.5')

		E407213-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		105 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: WF		Batch: 2430136
Chloride	386	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-18 (1.5')

E407213-18	8
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		102 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-19 (1.5') E407213-19

		E-10/210 17				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		102 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2430136
Chloride	446	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

CS-20 (1.5')

E407213-20	

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2430130
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2430122
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		107 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Matrix Spike Dup (2430130-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

5.29

4.95

5 21

5.07

10.2

15.2

7.70

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

QC Summary Data

Freedom State 36 SWD Carmona Resources Project Name: Reported: 310 West Wall St. Suite 415 Project Number: 24036-0001 Midland TX, 79701 Project Manager: Ashton Thielke 7/30/2024 1:28:53PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2430130-BLK1) Prepared: 07/26/24 Analyzed: 07/26/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.66 8.00 95.8 70-130 LCS (2430130-BS1) Prepared: 07/26/24 Analyzed: 07/26/24 4.86 97.1 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.56 0.0250 5.00 91.2 70-130 4.79 0.0250 5.00 95.7 70-130 Toluene o-Xylene 4.67 0.0250 5.00 93.4 70-130 9.40 10.0 94.0 70-130 0.0500 p.m-Xvlene 93.8 14.1 15.0 70-130 Total Xylenes 0.0250 8.00 97.2 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.78 Matrix Spike (2430130-MS1) Source: E407213-07 Prepared: 07/26/24 Analyzed: 07/26/24 5.21 0.0250 5.00 ND 54-133 Benzene ND 97.6 61-133 Ethylbenzene 4.88 0.0250 5.00 Toluene 5.13 0.0250 5.00 ND 103 61-130 4.99 ND 99.8 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.0 0.0500 10.0 ND 100 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.70 8.00

Source: E407213-07

99.0

104

101

102

102

96.2

54-133

61-133

61-130

63-131

63-131

63-131

70-130

1.58

1.45

1 47

1.58

1.40

1.46

ND

ND

ND

ND

ND

ND



Prepared: 07/26/24 Analyzed: 07/26/24

20

20

20

20

20

Analyst: BA

QC Summary Data

Freedom State 36 SWD Carmona Resources Project Name: Reported: 310 West Wall St. Suite 415 Project Number: 24036-0001 Midland TX, 79701 Project Manager: Ashton Thielke 7/30/2024 1:28:53PM

N	onha	logenate	d Organ	nics by El	PA 8015D -	GRO

Analyte		Reporting	Spike	Source		Rec		RPD	
a mary to	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430130-BLK1)							Prepared: 0	07/26/24 Ana	lyzed: 07/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		8.00		106	70-130			
LCS (2430130-BS2)							Prepared: 0	7/26/24 Ana	lyzed: 07/26/24
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			
Matrix Spike (2430130-MS2)				Source:	E407213-	07	Prepared: 0	7/26/24 Ana	lyzed: 07/26/24
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.53		8.00		107	70-130			
Matrix Spike Dup (2430130-MSD2)				Source:	E407213-	07	Prepared: 0	07/26/24 Ana	lyzed: 07/26/24
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130	1.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.57		8.00		107	70-130			



QC Summary Data

Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Ashton Thielke7/30/20241:28:53PM

Wildiana 171, 77701		r roject ivianage		mon imenc					
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430122-BLK1)							Prepared: 0	7/26/24 Analy	zed: 07/27/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.9		50.0		116	50-200			
LCS (2430122-BS1)							Prepared: 0	7/26/24 Analy	zed: 07/27/24
Diesel Range Organics (C10-C28)	293	25.0	250		117	38-132			
Surrogate: n-Nonane	57.4		50.0		115	50-200			
Matrix Spike (2430122-MS1)				Source:	E407213-	07	Prepared: 0	7/26/24 Analy	zed: 07/27/24
Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	38-132			
Surrogate: n-Nonane	56.9		50.0		114	50-200			
Matrix Spike Dup (2430122-MSD1)				Source:	E407213-	07	Prepared: 0	7/26/24 Analy	zed: 07/27/24
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	38-132	0.778	20	
Surrogate: n-Nonane	56.2		50.0		112	50-200			



QC Summary Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701]	Project Name: Project Number: Project Manager		Freedom State 3 24036-0001 Ashton Thielke	6 SWD				Reported: 7/30/2024 1:28:53PM
		Anions	by EPA	A 300.0/9056 <i>A</i>	1				Analyst: WF
	esult ng/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes

Blank (2430136-BLK1)							Prepared: 07	7/26/24 Analy	yzed: 07/26/24
Chloride	ND	20.0							
LCS (2430136-BS1)							Prepared: 07	7/26/24 Analy	yzed: 07/26/24
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2430136-MS1)				Source:	E407213-0)7	Prepared: 07	7/26/24 Analy	yzed: 07/26/24
Chloride	420	200	250	ND	168	80-120			M6
Matrix Spike Dup (2430136-MSD1)				Source:	E407213-0)7	Prepared: 07	7/26/24 Analy	yzed: 07/26/24
Chloride	431	200	250	ND	172	80-120	2.73	20	M6

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke07/30/24 13:28

M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS

recoveries.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



0721	3	 %
Page	of	
is RC	perfund	
RRP Other:	Level IV	

Project Manager:	Ashton Thielk	re			Bill to: (if	different)		Cos	-~631	Λ α	Resour	05		Work Order	Comments	
Company Name:	Carmona Res	sources			Company	y Name:				·			Program: UST/P	ST PRP row	nfields RC	perfund
Address:	310 W Wall S	St Ste 500			Address:								State of Project:		555 .	
City, State ZIP:	Midland, TX 7	79701			City, Stat	e ZIP:							Reporting:Level II	I □Level III □ST	UST RRP	Level IV
Phone:	(432) 813-898	88		Emai	1: thie	1 Keal	MID CO	onar	esou	C43	com		Deliverables: ED	D ADaP	Other:	
Project Name:	Freedom	State 3	SWO	The second second	n Around							ANALYSI	S REQUEST		Preservat	ive Codes
Project Number:	1	2334		□ Routine	Rush		Pres. Code								None: NO	DI Water: H ₂ O
Project Location	Educ	only, Ne	w Mexico	Due Date:	72	n,5-									Cool: Cool	MeOH: Me
Sampler's Name:		GP3							MRO)						HCL: HC	HNO ₃ : HN
PO #:							S		+						H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECE	IPT Te	emp Blank:	Yes No	Wet Ice:	Yes	No	Parameters	8	DRO	300.0					H₃PO₄: HP	
Received Intact:	(Yes No	Thermometer ID);			aran	BTEX 8021B	+	Je 3(NaHSO ₄ : NABIS	
Cooler Custody Seal		No N/A	Correction Factor	or:			à	TEX	(GR	Chloride					Na ₂ S ₂ O ₃ : NaSO	
Sample Custody Sea	als: Yes	No N/A	Temperature Re	eading:	-			8	15M	5					Zn Acetate+NaC	H: Zn
Total Containers:			Corrected Temp	erature:					TPH 8015M (GRO						NaOH+Ascorbic	Acid: SAPC
Sample Ide	ntification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		I I						Sample C	omments
US-1	(1.5)	7 24 25		X		(one)	1	×	X	X					Lab#	l
CS-2((1.5')					1	1	1		1						2
C5-3((1.5)															3
C5-41	(1.2,)															4
CS-5	(1.5')															5
CS-6((1.5')															6
(5-7)	1.5')															7
CS-81	1.51)															8
(5-91	(1.5)															9
CS-100	(15)			1		1	1	(1	:4						10

Comments:

Relinquished by: (Signature)	Date/Time	Received by (Signature)	Date/Time
1000	7/25/24 4:15	Michelle Gonzales	7-2524 0915
Vitabelle Gongales	725-24 1550	Indrew MSO	7.25.24 1845
Indrew Also	Page 31 of 33	higher a Hall	7-26-24 0500

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																Jok Work	Order N	o: <u>F407213</u> 4036-000	<u></u>
roject Manager:	Ashton Thie	elke			Bill to: (if	different)			See	pg	l					w	ork Order	Comments	
ompany Name:	Carmona R	esources			Compan	y Name:				V				Prog	gram: US	T/PST P	RP [row	nfields ☐RC {	perfund
idress:	310 W Wal	St Ste 500			Address:									Stat	e of Proje	ect:			
y, State ZIP:	Midland, TX	79701			City, Sta	te ZIP:		12/1						Rep	orting:Lev	el II 🗌 Lev	el III 🔲 S	T/UST RRP	Level IV
none:	(432) 813-8	988		Email	:									Deliv	verables:	EDD	ADal	PT Other:	
oject Name:	500	pg.1		Turi	n Around							ANAL	YSIS R	EQUES1			West and	Preservative	Codes
oject Number:	JEC	9	***************************************	□ Routine	0 Rush		Pres. Code				T								Water: H ₂ O
oject Location ampler's Name:				Due Date:	721	nr.			+ MRO)									Cool: Cool M	leOH: Me INO ₃ : HN laOH: Na
AMPLE RECEI eceived Intact: poler Custody Seal ample Custody Sea	ls: Y	Temp Blank: Yes No es No N/A es No N/A	Yes No Thermometer ID Correction Factor Temperature Re	or:	Yes	No No	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO +	Chloride 300.0		-						H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH:	Zn
tal Containers:			Corrected Temp	erature:					1801									NaOH+Ascorbic Aci	id: SAPC
Sample Ider	ntification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		百									Sample Con	nments
CS-11	(1.51)	7/24/24		X		Comp	1	X	×	X								Lab #	11
CS-18	2(15)					لل		1	1										12
15-13	(1.5)																		3
CS-14	-																		4
CS-15									1										5
CS-16	7																		. 6
CS-17					-				-					_	-				7
C5-18	7 7				-	-			\vdash		_			_	-				8
CS-19					-	-		-	+						+				9 20
CS-20	(1.5)	1				1 1			1	1								- •	AU .

Date/Time

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7125/24

7-25-24

9:15

1550

Relinquished by: (Signature)

Machelle Gonzales

Received by: (Signature)

Date/Time

Printed: 7/26/2024 9:48:59AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Carmona Resources	Date Received:	07/26/24 05	5:00	Work Order ID:	E407213
Phone:	(432) 813-6823	Date Logged In:	07/25/24 16		Logged In By:	Raina Schwanz
Email:	cmoehring@carmonaresouces.com	Due Date:		7:00 (2 day TAT)	Logged in By.	Kama Senwanz
21114111.		Due Buie.	07/30/2117	(2 day 1111)		
Chain of	Custody (COC)					
1. Does th	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes		<u></u>	
	Il samples received within holding time?	,	Yes			
	Note: Analysis, such as pH which should be conducted in				G	/D l - 42
	i.e, 15 minute hold time, are not included in this disucssi-	on.			<u>Comments</u>	/Resolution
	urn Around Time (TAT)				Project: Freedom State 3	6 SWD onlit up
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		•	• •
Sample C					between workorders E40	
	sample cooler received?		Yes		Time sampled not listed	on COC by client.
• 1	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
		temperature. 4	<u>C</u>			
Sample C	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lat		ners conceted:	103			
	field sample labels filled out with the minimum info	ormation.				
	ample ID?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes			
	ate/Time Collected?		Yes	ı		
C	ollectors name?		Yes			
Sample F	<u>reservation</u>					
21. Does	the COC or field labels indicate the samples were pr	reserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
	amples required to get sent to a subcontract laborato	rv?	No			
	subcontract laboratory specified by the client and i	-		Subcontract Lab	: NA	
	struction					
<u>Chem n</u>	istruction					

Date

Report to:
Ashton Thielke







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Analytical Report

Carmona Resources

Project Name: Freedom State 36 SWD

Work Order: E407216

Job Number: 24036-0001

Received: 7/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/30/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/30/24

Ashton Thielke 310 West Wall St. Suite 415 Midland, TX 79701

Project Name: Freedom State 36 SWD

Workorder: E407216

Date Received: 7/26/2024 5:00:14AM

Ashton Thielke,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/26/2024 5:00:14AM, under the Project Name: Freedom State 36 SWD.

The analytical test results summarized in this report with the Project Name: Freedom State 36 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Carmona Resources	Project Name:	Freedom State 36 SWD	Donoutoda
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	07/30/24 15:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-21 (1.5')	E407216-01A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-22 (1.5')	E407216-02A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-23 (1.5')	E407216-03A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-24 (1.5')	E407216-04A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-25 (1.5')	E407216-05A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-26 (1.5')	E407216-06A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
CS-27 (1.5')	E407216-07A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-1 (1.5')	E407216-08A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-2 (1.5')	E407216-09A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-3 (1.5')	E407216-10A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-4 (1.5')	E407216-11A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-5 (1.5')	E407216-12A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-6 (1.5')	E407216-13A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-7 (1.5')	E407216-14A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-8 (1.5')	E407216-15A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-9 (1.5')	E407216-16A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SW-10 (1.5')	E407216-17A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

CS-21 (1.5') E407216-01

		L40/210-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
Surrogate: n-Nonane		113 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
Chloride	370	200	10	07/26/24	07/26/24	

Surrogate: n-Nonane

Chloride

Anions by EPA 300.0/9056A

Sample Data

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:29:17PM

CS-22 (1.5')

E407216-02								
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: CG		Batch: 2430129		
Benzene	ND	0.0250	1	07/26/24	07/29/24			
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24			
Toluene	ND	0.0250	1	07/26/24	07/29/24			
o-Xylene	ND	0.0250	1	07/26/24	07/29/24			
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24			
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24			
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	70-130	07/26/24	07/29/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: CG		Batch: 2430129		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	07/26/24	07/29/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2430121		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24			
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24			

111 %

mg/kg

200

mg/kg

ND

50-200

07/26/24

07/26/24

Analyst: DT

10

07/26/24

07/26/24

Batch: 2430138



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

CS-23 (1.5')

E407216-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
Surrogate: n-Nonane		112 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2430138
Chloride	ND	200	10	07/26/24	07/26/24	



Chloride

Sample Data

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:29:17PM

CS-24 (1.5')

E407216-04							
		Reporting					
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: CG		Batch: 2430129	
Benzene	ND	0.0250	1	07/26/24	07/29/24		
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24		
Toluene	ND	0.0250	1	07/26/24	07/29/24		
o-Xylene	ND	0.0250	1	07/26/24	07/29/24		
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24		
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24		
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	70-130	07/26/24	07/29/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: CG		Batch: 2430129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	07/26/24	07/29/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2430121	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24		
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24		
Surrogate: n-Nonane		106 %	50-200	07/26/24	07/26/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2430138	

200

10

07/26/24

07/26/24

431



Sample Data

Project Name: Freedom State 36 SWD Carmona Resources 310 West Wall St. Suite 415 Project Number: 24036-0001 Reported: 7/30/2024 3:29:17PM Midland TX, 79701 Project Manager: Ashton Thielke

CS-25 (1.5')

E407216-05							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2430129	
Benzene	ND	0.0250	1	07/26/24	07/29/24		
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24		
Toluene	ND	0.0250	1	07/26/24	07/29/24		
o-Xylene	ND	0.0250	1	07/26/24	07/29/24		
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24		
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24		
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	70-130	07/26/24	07/29/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2430129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	07/26/24	07/29/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2430121	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24		
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24		
Surrogate: n-Nonane		96.9 %	50-200	07/26/24	07/26/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2430138	
Chloride	266	200	10	07/26/24	07/26/24		



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

CS-26 (1.5')

E407216-06						
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
Surrogate: n-Nonane		107 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2430138
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

CS-27 (1.5')

E407216-07							
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: CG		Batch: 2430129	
Benzene	ND	0.0250	1	07/26/24	07/29/24		
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24		
Toluene	ND	0.0250	1	07/26/24	07/29/24		
o-Xylene	ND	0.0250	1	07/26/24	07/29/24		
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24		
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24		
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	07/26/24	07/29/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	07/26/24	07/29/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2430121	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24		
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24		
Surrogate: n-Nonane		101 %	50-200	07/26/24	07/26/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138	
Chloride	262	200	10	07/26/24	07/26/24		



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

SW-1 (1.5')

		E407216-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
Surrogate: n-Nonane		105 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2430138
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:29:17PM

SW-2 (1.5')

		E407216-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
Surrogate: n-Nonane		108 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:29:17PM

SW-3 (1.5') E407216-10

		L40/210 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
Surrogate: n-Nonane		115 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
Chloride	411	200	10	07/26/24	07/26/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

SW-4 (1.5')

		E407216-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
Surrogate: n-Nonane		102 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
Chloride	462	200	10	07/26/24	07/26/24	



Chloride

Sample Data

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:29:17PM

SW-5 (1.5')

		E407216-12				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		ılyst: CG	,	Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	Batch: 2 13 (12)
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		103 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2430138

200

600

07/26/24

07/26/24

10



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

SW-6 (1.5')

		E407216-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		116 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

SW-7 (1.5')

		E407216-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/30/24	
Toluene	ND	0.0250	1	07/26/24	07/30/24	
o-Xylene	ND	0.0250	1	07/26/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	70-130	07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		111 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
Chloride	ND	200	10	07/26/24	07/26/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	7/30/2024 3:29:17PM

SW-8 (1.5')

		E407216-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/30/24	
Toluene	ND	0.0250	1	07/26/24	07/30/24	
p-Xylene	ND	0.0250	1	07/26/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		110 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Project Name: Freedom State 36 SWD Carmona Resources 310 West Wall St. Suite 415 Project Number: 24036-0001 Reported: 7/30/2024 3:29:17PM Midland TX, 79701 Project Manager: Ashton Thielke

SW-9 (1.5')

		E407216-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/30/24	
Toluene	ND	0.0250	1	07/26/24	07/30/24	
o-Xylene	ND	0.0250	1	07/26/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/26/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		108 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
Chloride	233	200	10	07/26/24	07/26/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:29:17PM

SW-10 (1.5')

E407216-17

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg		Analy	st: CG		Batch: 2430129
Benzene	ND	0.0250	1	07/26/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/30/24	
Toluene	ND	0.0250	1	07/26/24	07/30/24	
o-Xylene	ND	0.0250	1	07/26/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130	07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2430129
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2430121
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
Surrogate: n-Nonane		112 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430138
	ND	200	10	07/26/24	07/26/24	



QC Summary Data

Freedom State 36 SWD Carmona Resources Project Name: Reported: 310 West Wall St. Suite 415 Project Number: 24036-0001 Midland TX, 79701 Project Manager: Ashton Thielke 7/30/2024 3:29:17PM **Volatile Organics by EPA 8021B** Analyst: CG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2430129-BLK1) Prepared: 07/26/24 Analyzed: 07/29/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.16 8.00 102 70-130 LCS (2430129-BS1) Prepared: 07/26/24 Analyzed: 07/30/24 4.97 99.5 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.90 0.0250 5.00 98.0 70-130 4.97 0.0250 5.00 99.4 70-130 Toluene 98.0 o-Xylene 4.90 0.0250 5.00 70-130 9.97 10.0 99.7 70-130 0.0500 p.m-Xvlene 99.1 70-130 14.9 15.0 Total Xylenes 0.0250 8.00 99.2 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.94 Matrix Spike (2430129-MS1) Source: E407216-04 Prepared: 07/26/24 Analyzed: 07/30/24 5.01 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.98 0.0250 5.00 99.6 Toluene 5.04 0.0250 5.00 ND 101 61-130 5.00 ND 63-131 5.00 100 0.0250 o-Xylene p,m-Xylene 10.1 0.0500 10.0 ND 101 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.99 8.00 Matrix Spike Dup (2430129-MSD1) Source: E407216-04 Prepared: 07/26/24 Analyzed: 07/30/24 5.12 0.0250 5.00 ND 102 54-133 2.10 61-133 5.09 0.0250 5.00 ND 102 2.15 20 Ethylbenzene 61-130 Toluene 5.14 0.0250 5.00 ND 103 2 15 20 5.10 5.00 ND 102 63-131 1.95 20 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

104

103

99.5

63-131

63-131

70-130

2.26

2.16

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

10.4

15.5

7.96

Analyst: CG

QC Summary Data

Freedom State 36 SWD Carmona Resources Project Name: Reported: 310 West Wall St. Suite 415 Project Number: 24036-0001 Midland TX, 79701 Project Manager: Ashton Thielke 7/30/2024 3:29:17PM

Nonhalogenated Organics by EPA 8015D - GRO
--

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	LIIIII	Levei	Resuit	Rec	Limits	KPD	LIIII	ι
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430129-BLK1)							Prepared: 0	7/26/24	Analyzed: 07/29/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
LCS (2430129-BS2)							Prepared: 0	7/26/24	Analyzed: 07/30/24
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			
Matrix Spike (2430129-MS2)				Source:	E407216-	04	Prepared: 0	7/26/24	Analyzed: 07/30/24
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			
Matrix Spike Dup (2430129-MSD2)				Source:	E407216-	04	Prepared: 0	7/26/24	Analyzed: 07/30/24
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.3	70-130	1.25	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			



QC Summary Data

Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Ashton Thielke7/30/20243:29:17PM

Wildiana 171, 77701		Troject Manage	. 710	mon imenc				,,,	
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430121-BLK1)							Prepared: 0	7/26/24 Analy	vzed: 07/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.9		50.0		116	50-200			
LCS (2430121-BS1)							Prepared: 0	7/26/24 Analy	zed: 07/26/24
Diesel Range Organics (C10-C28)	286	25.0	250		114	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			
Matrix Spike (2430121-MS1)				Source:	E407216-	08	Prepared: 0	7/26/24 Analy	zed: 07/29/24
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike Dup (2430121-MSD1)				Source:	E407216-	08	Prepared: 0	7/26/24 Analy	zed: 07/26/24
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	38-132	10.4	20	
Surrogate: n-Nonane	57.7		50.0		115	50-200			

QC Summary Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701		Project Name: Project Number: Project Manager:	2	reedom State 3 4036-0001 Ashton Thielke	6 SWD				Reported: 7/30/2024 3:29:17PM
		Anions	by EPA	300.0/9056A					Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes

	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430138-BLK1)							Prepared: 07	7/26/24 An	alyzed: 07/26/24
Chloride	ND	20.0							
LCS (2430138-BS1)							Prepared: 07	7/26/24 An	alyzed: 07/26/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2430138-MS1)				Source:	E407216-0	06	Prepared: 07	7/26/24 An	alyzed: 07/26/24
Chloride	271	200	250	ND	108	80-120			
Matrix Spike Dup (2430138-MSD1)				Source:	E407216-0	06	Prepared: 07	7/26/24 An	alyzed: 07/26/24
Chloride	269	200	250	ND	108	80-120	0.593	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke07/30/24 15:29

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Relinquished by: (Signature)

Date/Time

7-15/14 9:15

Whitelle Georgales

7-25-14 1550

Loden 1845

Page 28 of 30

Received by: (Signature)

Date/Time

Date/Time

7-25-14 1945

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							CI	nain	of	Cus	stoc	ly						Worl	k Orc	ler No	o: 407216
Project Manager: Company Name: Address: City, State ZIP: Phone:	Carmo 310 W Midlan (432)	n Thielke ona Reso / Wall St ad, TX 79 813-8988	Ste 500 701		Emai	Bill to: (if Company Address: City, Stat	y Name:			See	pg	L			S	tate of eportin	Project g:Level	PST [PRP		
Project Name:	Se	e pg	<u> </u>		Turi □ Routine	n Around Rush		Pres.		T	Ī		ANA	LYSIS	REQUE	ST			-	T	Preservative Codes
Project Number: Project Location Sampler's Name: PO #:				T	Due Date:	172 h		Code		O + MRO)											None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEI Received Intact: Cooler Custody Seal Sample Custody Sea Total Containers:	ls:	Ye	p Blank: s No No N/A No N/A	Yes No Thermometer II Correction Fact Temperature Re Corrected Temp	or: eading:	Yes	No	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0							-			H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Sample Ider	ntificatio	on	Date	Time	Soil	Water	Grab/ Comp	# of Cont		₽											Sample Comments
9W-41	(1.5:)	7/24/24		×		Comp	1	X	×	4										
SW-5	(1.2,	<u> </u>			1		1		1	1	1										
5W-7	(1.5)																			
3w.9	(1.5))																			
5W-10	(1.5))						1_		1			-		-	+	+		+		
																			-		
Comments:				-	w (1)								1								

Date/Time

72524 | 550 7 Page 29 of 30

7/25/24

9:15

Received by: (Signature)

Michelle Gonzales

Relinquished by: (Signature)

Date/Time

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Printed: 7/30/2024 3:24:31PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Carmona Resources	Date Received:	07/26/24	05:00	Work Order ID:	E407216
Phone: (432) 813-6823	Date Logged In:	07/25/24		Logged In By:	Raina Schwanz
Email:	Due Date:	07/30/24	17:00 (2 day TAT)		
Chain of Custody (COC)					
1. Does the sample ID match the COC?		Yes			
2. Does the number of samples per sampling site location m	atch the COC	Yes			
3. Were samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	ourier	
4. Was the COC complete, i.e., signatures, dates/times, requ	ested analyses?	No			
5. Were all samples received within holding time?		Yes			
Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disuss			г	Commen	ts/Resolution
Sample Turn Around Time (TAT)				Duningto Euro Jama Ctata	26 CWD andid
6. Did the COC indicate standard TAT, or Expedited TAT?		Yes		Project: Freedom State	
Sample Cooler				between workorders E	107213 & E407216.
7. Was a sample cooler received?		Yes		Time sampled not liste	d on COC by client.
8. If yes, was cooler received in good condition?		Yes			
9. Was the sample(s) received intact, i.e., not broken?		Yes			
10. Were custody/security seals present?		No			
11. If yes, were custody/security seals intact?		NA			
12. Was the sample received on ice? If yes, the recorded temp is 4°0 Note: Thermal preservation is not required, if samples a minutes of sampling		Yes			
13. If no visible ice, record the temperature. Actual samp	le temperature: 4°	<u>'C</u>			
Sample Container					
14. Are aqueous VOC samples present?		No			
15. Are VOC samples collected in VOA Vials?		NA			
16. Is the head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a trip blank (TB) included for VOC analyses?	_	NA			
18. Are non-VOC samples collected in the correct container		Yes			
19. Is the appropriate volume/weight or number of sample conta	iners collected?	Yes			
Field Label	c .:				
20. Were field sample labels filled out with the minimum in Sample ID?	formation:	Yes			
Date/Time Collected?		Yes	L		
Collectors name?		Yes			
Sample Preservation					
21. Does the COC or field labels indicate the samples were	preserved?	No			
22. Are sample(s) correctly preserved?		NA			
Properties.	metals?	No			
24. Is lab filteration required and/or requested for dissolved Multiphase Sample Matrix					
24. Is lab filteration required and/or requested for dissolved	ase?	No			
24. Is lab filteration required and/or requested for dissolved Multiphase Sample Matrix		No NA			
24. Is lab filteration required and/or requested for dissolved Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase, does the COC specify which phase(s) is to be analysis.					
24. Is lab filteration required and/or requested for dissolved Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multipher 27. If yes, does the COC specify which phase(s) is to be an a Subcontract Laboratory	lyzed?	NA			
24. Is lab filteration required and/or requested for dissolved Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase 17. If yes, does the COC specify which phase(s) is to be an an Subcontract Laboratory 28. Are samples required to get sent to a subcontract laborate.	lyzed? ory?		Subcontract Lab	: NA	
24. Is lab filteration required and/or requested for dissolved Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multipher 27. If yes, does the COC specify which phase(s) is to be an a Subcontract Laboratory	lyzed? ory?	NA No	Subcontract Lab	: NA	

Report to:
Ashton Thielke







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Carmona Resources

Project Name: Freedom State 36 SWD

Work Order: E408033

Job Number: 24036-0001

Received: 8/6/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/8/24

Ashton Thielke 310 West Wall St. Suite 415 Midland, TX 79701

Project Name: Freedom State 36 SWD

Workorder: E408033

Date Received: 8/6/2024 8:30:00AM

Ashton Thielke,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2024 8:30:00AM, under the Project Name: Freedom State 36 SWD.

The analytical test results summarized in this report with the Project Name: Freedom State 36 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Carmona Resources	Project Name:	Freedom State 36 SWD	Donoutoda
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Ashton Thielke	08/08/24 09:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-11 (1.5')	E408033-01A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-12 (1.5')	E408033-02A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-13 (1.5')	E408033-03A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-14 (1.5')	E408033-04A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-15 (1.5')	E408033-05A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-16 (1.5')	E408033-06A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-17 (1.5')	E408033-07A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-18 (1.5')	E408033-08A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-19 (1.5')	E408033-09A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-20 (1.5')	E408033-10A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-21 (1.5')	E408033-11A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-22 (1.5')	E408033-12A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-23 (1.5')	E408033-13A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-28 (1.5')	E408033-14A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-29 (1.5')	E408033-15A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-30 (1.5')	E408033-16A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-31 (1.5')	E408033-17A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-32 (1.5')	E408033-18A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-11 (1.5') E408033-01

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2432021
Benzene	ND	0.0250	1		08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1	Į.	08/06/24	08/06/24	
Toluene	ND	0.0250	1	l	08/06/24	08/06/24	
o-Xylene	ND	0.0250	1		08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1	l	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1		08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		100 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		100 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0	1		08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/06/24	08/06/24	
Surrogate: n-Nonane		99.2 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: WF		Batch: 2432027



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-12 (1.5')

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Benzene	ND	0.0250	1		08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1		08/06/24	08/06/24	
Toluene	ND	0.0250	1		08/06/24	08/06/24	
o-Xylene	ND	0.0250	1		08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1		08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	l	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		98.7 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		100 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		98.7 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		100 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0	1		08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/06/24	08/06/24	
Surrogate: n-Nonane		99.5 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2432027
		200	10		08/06/24	08/06/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-13 (1.5') E408033-03

	E-100033-03				
Pagult	Reporting		on Dronoro	Analyzad	Notes
Result	Limit	Dilutio	on Prepared	Anaryzeu	Notes
mg/kg	mg/kg	An	nalyst: RKS		Batch: 2432021
ND	0.0250	1	08/06/24	08/06/24	
ND	0.0250	1	08/06/24	08/06/24	
ND	0.0250	1	08/06/24	08/06/24	
ND	0.0250	1	08/06/24	08/06/24	
ND	0.0500	1	08/06/24	08/06/24	
ND	0.0250	1	08/06/24	08/06/24	
	102 %	70-130	08/06/24	08/06/24	
	96.2 %	70-130	08/06/24	08/06/24	
	98.1 %	70-130	08/06/24	08/06/24	
mg/kg	mg/kg	An	nalyst: RKS		Batch: 2432021
ND	20.0	1	08/06/24	08/06/24	
	102 %	70-130	08/06/24	08/06/24	
	96.2 %	70-130	08/06/24	08/06/24	
	98.1 %	70-130	08/06/24	08/06/24	
mg/kg	mg/kg	An	nalyst: KM		Batch: 2432030
ND	25.0	1	08/06/24	08/06/24	
ND	50.0	1	08/06/24	08/06/24	
	100 %	50-200	08/06/24	08/06/24	
mg/kg	mg/kg	An	nalyst: WF		Batch: 2432027
			•		
	ND N	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IO2 % 96.2 % 98.1 % mg/kg ND 20.0 102 % 96.2 % 98.1 % 98.1 % mg/kg mg/kg ND 25.0 ND 50.0 100 %	Reporting Mean Limit Dilution mg/kg mg/kg An ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0500 1 ND 0.0250 1 102 % 70-130 96.2 % 70-130 98.1 % 70-130 98.1 % 70-130 98.1 % 70-130 98.1 % 70-130 mg/kg mg/kg An ND 25.0 1 ND 50.0 1 100 % 50-200	Reporting Result Limit Dilution Prepared mg/kg Analyst: RKS ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0500 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 96.2 % 70-130 08/06/24 98.1 % 70-130 08/06/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/06/24 96.2 % 70-130 08/06/24 98.1 % 70-130 08/06/24 98.1 % 70-130 08/06/24 mg/kg mg/kg Analyst: KM ND 25.0 1 08/06/24 ND 50.0 1 08/06/24 ND 50.0 1 <td>Reporting Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/06/24 08/06/24 ND 0.0500 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 96.2 % 70-130 08/06/24 08/06/24 96.2 % 70-130 08/06/24 08/06/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/06/24 08/06/24 96.2 % 70-130 08/06/24 08/06/24 98.1 % 70-130 08/06/24 08/06/24 98.1 % 70-130 08/06/24 08/06/24</td>	Reporting Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/06/24 08/06/24 ND 0.0500 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 96.2 % 70-130 08/06/24 08/06/24 96.2 % 70-130 08/06/24 08/06/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/06/24 08/06/24 96.2 % 70-130 08/06/24 08/06/24 98.1 % 70-130 08/06/24 08/06/24 98.1 % 70-130 08/06/24 08/06/24



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-14 (1.5')

	2.00000 01					
Dk			4: B		A valence !	Natar
Result	Limit	Dilut	tion Pr	repared	Analyzed	Notes
mg/kg	mg/kg	A	Analyst: RKS			Batch: 2432021
ND	0.0250	1	08	3/06/24	08/06/24	
ND	0.0250	1	08	3/06/24	08/06/24	
ND	0.0250	1	08	3/06/24	08/06/24	
ND	0.0250	1	08	3/06/24	08/06/24	
ND	0.0500	1	08	3/06/24	08/06/24	
ND	0.0250	1	08	3/06/24	08/06/24	
·	101 %	70-130	08	3/06/24	08/06/24	
	96.3 %	70-130	08	3/06/24	08/06/24	
	97.1 %	70-130	08	3/06/24	08/06/24	
mg/kg	mg/kg	A	Analyst: RKS			Batch: 2432021
ND	20.0	1	08	3/06/24	08/06/24	
	101 %	70-130	08	3/06/24	08/06/24	
	96.3 %	70-130	08	3/06/24	08/06/24	
	97.1 %	70-130	08	3/06/24	08/06/24	
mg/kg	mg/kg	A	Analyst: KM			Batch: 2432030
ND	25.0	1	08	3/06/24	08/06/24	_
ND	50.0	1	08	3/06/24	08/06/24	
				1/0.6/2.4	08/06/24	
	98.7 %	50-200	08	3/06/24	08/00/24	
mg/kg	98.7 % mg/kg		08 Analyst: WF	8/06/24	08/00/24	Batch: 2432027
	ND ND ND ND ND ND ND ND ND Mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IOI % 96.3 % 97.1 % mg/kg MD 20.0 IOI % 96.3 % 97.1 % mg/kg mg/kg mg/kg ND 25.0	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 101% 70-130 96.3% 70-130 97.1% 70-130 mg/kg mg/kg ND 20.0 101% 70-130 96.3% 70-130 97.1% 70-130 mg/kg mg/kg Mg/kg mg/kg	Result Limit Dilution Pr mg/kg mg/kg Analyst: RKS ND 0.0250 1 08 ND 0.0250 1 08 ND 0.0250 1 08 ND 0.0250 1 08 ND 0.0500 1 08 ND 0.0250 1 08 96.3 % 70-130 08 97.1 % 70-130 08 97.1 % 70-130 08 96.3 % 70-130 08 96.3 % 70-130 08 96.3 % 70-130 08 97.1 % 70-130 08 97.1 % 70-130 08 97.1 % 70-130 08 97.1 % 70-130 08 97.1 % 70-130 08 97.1 % 70-130 08 90 Mg/s Analyst: KM	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0250 1 08/06/24 ND 0.0500 1 08/06/24 ND 0.0250 1 08/06/24 96.3 % 70-130 08/06/24 96.3 % 70-130 08/06/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/06/24 96.3 % 70-130 08/06/24 96.3 % 70-130 08/06/24 96.3 % 70-130 08/06/24 96.3 % 70-130 08/06/24 96.3 % 70-130 08/06/24 96.3 % 70-130 08/06/24 96.3 % 70-130 08/06/24 97.1 % 70-130 08/06/24 90 30	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 08/06/24 08/06/24 ND 0.0500 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 ND 0.0250 1 08/06/24 08/06/24 96.3 % 70-130 08/06/24 08/06/24 96.3 % 70-130 08/06/24 08/06/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 08/06/24 08/06/24 96.3 % 70-130 08/06/24 08/06/24 96.3 % 70-130 08/06/24 08/06/24 96.3 % 70-130 08/06/24 08/06/24 97.1 %



Carmona Resources Project Name: Freedom State 36 SWD
310 West Wall St. Suite 415 Project Number: 24036-0001 Reported:
Midland TX, 79701 Project Manager: Ashton Thielke 8/8/2024 9:56:42AM

SW-15 (1.5')

E408033-05 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: RKS Batch: 2432021 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 08/06/24 ND 0.0250 08/06/24 Benzene 08/06/24 08/06/24 Ethylbenzene ND 0.0250 1 ND 0.0250 08/06/24 08/06/24 Toluene 1 08/06/24 08/06/24 o-Xylene ND 0.0250 08/06/24 08/06/24 ND 0.0500 1 p,m-Xylene 08/06/24 08/06/24 1 Total Xylenes ND 0.0250 97.9 % 08/06/24 08/06/24 Surrogate: Bromofluorobenzene 70-130 08/06/24 Surrogate: 1,2-Dichloroethane-d4 93.5 % 70-130 08/06/24 Surrogate: Toluene-d8 96.7% 70-130 08/06/24 08/06/24 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: RKS Batch: 2432021 ND 08/06/24 08/06/24 20.0 1 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 97.9 % 08/06/24 08/06/24 70-130 08/06/24 08/06/24 Surrogate: 1,2-Dichloroethane-d4 93.5 % 70-130 Surrogate: Toluene-d8 08/06/24 08/06/24 96.7% 70-130 mg/kg Analyst: KM Batch: 2432030 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 08/06/24 ND 25.0 1 08/06/24 Diesel Range Organics (C10-C28) ND 50.0 1 08/06/24 08/06/24 Oil Range Organics (C28-C36) 99.2 % 50-200 08/06/24 08/06/24 Surrogate: n-Nonane Analyst: WF mg/kg mg/kg Batch: 2432027 Anions by EPA 300.0/9056A

200

262

10

08/06/24

08/06/24

Chloride

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-16 (1.5') E408033-06

		E400055-00				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2432021
Benzene	ND	0.0250	1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/06/24	
Toluene	ND	0.0250	1	08/06/24	08/06/24	
o-Xylene	ND	0.0250	1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		99.0 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		99.0 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		96.8 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: WF		Batch: 2432027
Chloride	201	200	10	08/06/24	08/06/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-17 (1.5')

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2432021
Benzene	ND	0.0250		1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250		1	08/06/24	08/06/24	
Toluene	ND	0.0250		1	08/06/24	08/06/24	
o-Xylene	ND	0.0250		1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500		1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		99.7 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		97.2 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		99.7 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		97.2 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0		1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/06/24	08/06/24	
Surrogate: n-Nonane		96.6 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2432027
	617	200		10	08/06/24	08/06/24	

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-18 (1.5')

		E408033-08					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Benzene	ND	0.0250	1	1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250		1	08/06/24	08/06/24	
Toluene	ND	0.0250		1	08/06/24	08/06/24	
o-Xylene	ND	0.0250		1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500		1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		99.8 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		99.8 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0		1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/06/24	08/06/24	
Surrogate: n-Nonane		99.1 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2432027
Chloride	254	20.0		1	08/06/24	08/06/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-19 (1.5') E408033-09

Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2432021
Benzene	ND	0.0250	1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/06/24	
Toluene	ND	0.0250	1	08/06/24	08/06/24	
o-Xylene	ND	0.0250	1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		101 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		101 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		99.3 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: WF		Batch: 2432027
Chloride	257	20.0	1	08/06/24	08/06/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-20 (1.5')

		E408033-10					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Benzene	ND	0.0250		1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250		1	08/06/24	08/06/24	
Toluene	ND	0.0250		1	08/06/24	08/06/24	
o-Xylene	ND	0.0250		1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500		1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		98.8 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		98.8 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0		1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/06/24	08/07/24	
Surrogate: n-Nonane		105 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2432027
Chloride	272	20.0		1	08/06/24	08/06/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-21 (1.5')

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Benzene	ND	0.0250	1	1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1	1	08/06/24	08/06/24	
Toluene	ND	0.0250	1	1	08/06/24	08/06/24	
o-Xylene	ND	0.0250	1	1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1	1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		98.4 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		98.4 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/06/24	08/07/24	
Surrogate: n-Nonane		102 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2432027
Chloride	282	20.0	1	1	08/06/24	08/06/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-22 (1.5')

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2432021
Benzene	ND	0.0250		1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250		1	08/06/24	08/06/24	
Toluene	ND	0.0250		1	08/06/24	08/06/24	
o-Xylene	ND	0.0250		1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500		1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		93.8 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		93.8 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0		1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/06/24	08/07/24	
Surrogate: n-Nonane		97.7 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2432027
· · · · · · · · · · · · · · · · · · ·	150	20.0		1	08/06/24	08/06/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

SW-23 (1.5')

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2432021
Benzene	ND	0.0250		1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250		1	08/06/24	08/06/24	
Toluene	ND	0.0250		1	08/06/24	08/06/24	
o-Xylene	ND	0.0250		1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500		1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		101 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		101 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0		1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/06/24	08/07/24	
Surrogate: n-Nonane		100 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: WF		Batch: 2432027
	ND	200		10	08/06/24	08/06/24	



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

CS-28 (1.5')

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	P	Analyst: R	KS		Batch: 2432021
Benzene	ND	0.0250	1		08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1		08/06/24	08/06/24	
Toluene	ND	0.0250	1		08/06/24	08/06/24	
o-Xylene	ND	0.0250	1		08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1		08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1		08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		99.3 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	P	Analyst: RKS			Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		99.3 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: K	M		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0	1		08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/06/24	08/07/24	
Surrogate: n-Nonane		97.6 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: W	VF		Batch: 2432027
		· · · · · · · · · · · · · · · · · · ·	10		08/06/24	08/06/24	·



Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

CS-29 (1.5')

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		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS	Batch: 2432021	
Benzene	ND	0.0250	1		08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1		08/06/24	08/06/24	
Toluene	ND	0.0250	1		08/06/24	08/06/24	
o-Xylene	ND	0.0250	1		08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1		08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1		08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		97.7 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8		97.7 %	70-130		08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	_	Analyst:	KM		Batch: 2432030
Diesel Range Organics (C10-C28)	ND	25.0	1		08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/06/24	08/07/24	
Surrogate: n-Nonane		98.8 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2432027
· · · · · · · · · · · · · · · · · · ·	553	200	10		08/06/24	08/06/24	

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

CS-30 (1.5') E408033-16

		E400033-10				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Analyte	Result	Limit	Diluti	ion Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2432021
Benzene	ND	0.0250	1	08/06/24	08/06/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/06/24	
Toluene	ND	0.0250	1	08/06/24	08/06/24	
o-Xylene	ND	0.0250	1	08/06/24	08/06/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/06/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		97.8 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		97.8 %	70-130	08/06/24	08/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		102 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: WF		Batch: 2432027
Chloride	514	200	10	08/06/24	08/06/24	



 Carmona Resources
 Project Name:
 Freedom State 36 SWD

 310 West Wall St. Suite 415
 Project Number:
 24036-0001
 Report Hamager:

 Midland TX, 79701
 Project Manager:
 Ashton Thielke
 8/8/2024
 9:56:42AM

CS-31 (1.5')

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2432021
Benzene	ND	0.0250	1		08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1		08/06/24	08/07/24	
Toluene	ND	0.0250	1	l	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1		08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1		08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1		08/06/24	08/07/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		08/06/24	08/07/24	
Surrogate: Toluene-d8		97.2 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/06/24	08/07/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/06/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		08/06/24	08/07/24	
Surrogate: Toluene-d8		97.2 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1		08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/06/24	08/06/24	
Surrogate: n-Nonane		106 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2432027
Chloride	528	200	1		08/06/24	08/06/24	

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

CS-32 (1.5')

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS			Batch: 2432021
Benzene	ND	0.0250	1		08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1		08/06/24	08/07/24	
Toluene	ND	0.0250	1		08/06/24	08/07/24	
o-Xylene	ND	0.0250	1		08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1		08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1		08/06/24	08/07/24	
Surrogate: Bromofluorobenzene		99.2 %	70-130		08/06/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		08/06/24	08/07/24	
Surrogate: Toluene-d8		98.9 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: R	KS		Batch: 2432021
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/06/24	08/07/24	
Surrogate: Bromofluorobenzene		99.2 %	70-130		08/06/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		08/06/24	08/07/24	
Surrogate: Toluene-d8		98.9 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: K	ĽM.		Batch: 2432031
Diesel Range Organics (C10-C28)	26.3	25.0	1		08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/06/24	08/06/24	
Surrogate: n-Nonane		107 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: V	VF		Batch: 2432027
	355	200	10		08/06/24	08/06/24	

Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Ashton Thielke8/8/2024 9:56:42AM

Midland TX, 79701		Project Manage	r: As	shton Thielke				8/8	8/2024 9:56:42AN
	V	olatile Organ	ic Compo	unds by El	PA 82601	В			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432021-BLK1)							Prepared: 08	8/06/24 Anal	yzed: 08/06/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			
LCS (2432021-BS1)							Prepared: 08	8/06/24 Anal	yzed: 08/06/24
Benzene	2.27	0.0250	2.50		90.8	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.7	70-130			
Foluene	2.14	0.0250	2.50		85.8	70-130			
o-Xylene	2.29	0.0250	2.50		91.5	70-130			
o,m-Xylene	4.55	0.0500	5.00		91.0	70-130			
Total Xylenes	6.84	0.0250	7.50		91.1	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			
Matrix Spike (2432021-MS1)				Source:	E408033-	10	Prepared: 08	8/06/24 Anal	yzed: 08/06/24
Benzene	2.43	0.0250	2.50	ND	97.2	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.3	45-135			
Toluene	2.29	0.0250	2.50	ND	91.4	48-130			
o-Xylene	2.44	0.0250	2.50	ND	97.6	43-135			
p,m-Xylene	4.86	0.0500	5.00	ND	97.3	43-135			
Total Xylenes	7.30	0.0250	7.50	ND	97.4	43-135			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			
Matrix Spike Dup (2432021-MSD1)				Source:	Source: E408033-10 P			8/06/24 Anal	yzed: 08/06/24
Benzene	2.45	0.0250	2.50	ND	98.0	48-131	0.799	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.8	45-135	2.52	27	
Toluene	2.34	0.0250	2.50	ND	93.8	48-130	2.57	24	
o-Xylene	2.48	0.0250	2.50	ND	99.3	43-135	1.73	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135	2.32	27	
Total Xylenes	7.46	0.0250	7.50	ND	99.4	43-135	2.12	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
			0.500		00.1	50 120			

0.500

98.1

70-130

0.491

Surrogate: Toluene-d8

Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

Nonhalogenated	Organics	by EPA	8015D - 0	GRO
Tommanogenatea	O' Sames	DJ LIII	OUISD	3110

Anal	yst	: R	K
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Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432021-BLK1)							Prepared: 08	8/06/24 Anal	yzed: 08/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			
LCS (2432021-BS2)							Prepared: 08	8/06/24 Anal	yzed: 08/06/24
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.9	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
Matrix Spike (2432021-MS2)				Source:	E408033-	10	Prepared: 08	8/06/24 Anal	yzed: 08/06/24
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			
Matrix Spike Dup (2432021-MSD2)				Source:	E408033-	10	Prepared: 08	8/06/24 Anal	yzed: 08/06/24
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.2	70-130	1.74	20	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Ashton Thielke8/8/20249:56:42AM

Wildiana 121, 75701		r roject ivianage.	. 715	mon imenc					
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432030-BLK1)							Prepared: 0	8/06/24 Anal	yzed: 08/06/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			
LCS (2432030-BS1)							Prepared: 0	8/06/24 Anal	yzed: 08/06/24
Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			
Matrix Spike (2432030-MS1)				Source:	E408033-	04	Prepared: 0	8/06/24 Anal	yzed: 08/06/24
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			
Matrix Spike Dup (2432030-MSD1)				Source:	E408033-	04	Prepared: 0	8/06/24 Anal	yzed: 08/06/24
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132	6.08	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Ashton Thielke8/8/2024 9:56:42AM

,											
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2432031-BLK1)							Prepared: 0	8/06/24 Ana	yzed: 08/06/24		
Diesel Range Organics (C10-C28)	ND	25.0									
Oil Range Organics (C28-C36)	ND	50.0									
Surrogate: n-Nonane	52.5		50.0		105	50-200					
LCS (2432031-BS1)							Prepared: 0	8/06/24 Ana	yzed: 08/06/24		
Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132					
Surrogate: n-Nonane	61.8		50.0		124	50-200					
Matrix Spike (2432031-MS1)				Source:	E408034-	04	Prepared: 0	8/06/24 Ana	lyzed: 08/06/24		
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132					
Surrogate: n-Nonane	57.0		50.0		114	50-200					
Matrix Spike Dup (2432031-MSD1)				Source:	E408034-	04	Prepared: 0	8/06/24 Ana	yzed: 08/06/24		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132	3.88	20			
Surrogate: n-Nonane	58.0		50.0		116	50-200					

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701		Project Name: Project Number: Project Manager:	24	reedom State 3 4036-0001 shton Thielke					Reported: 8/8/2024 9:56:42AM
		Anions	by EPA 3	300.0/9056 <i>A</i>	4				Analyst: WF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432027-BLK1)							Prepared: 0	8/06/24 A	nalyzed: 08/06/24
Chloride	ND	20.0							
LCS (2432027-BS1)							Prepared: 0	8/06/24 A	nalyzed: 08/06/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2432027-MS1)				Source:	E408033-	04	Prepared: 0	8/06/24 A	nalyzed: 08/06/24
Chloride	475	200	250	235	95.8	80-120			
Matrix Spike Dup (2432027-MSD1)				Source:	E408033-	04	Prepared: 0	8/06/24 A	nalyzed: 08/06/24
Chloride	506	200	250	235	108	80-120	6.45	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Ashton Thielke08/08/24 09:56

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Work Order No	E408033	
Job #	24036-0001	

Released to Imaging:									CI	nain	of I	Cus	stoc	ly	*									24036 -	
9/1	Project Manager:	Ashton Th	ielke					Bill to: (if	different)		Black	buck F	Resourc	es							(Edi	Work	Order	Comments	04
2	Company Name:	Carmona	Resou	urces				Compan	Name:		Black	buck F	Resourc	es					Progra	m: UST	PST [120000000000000000000000000000000000000		€perfund [
124	Address:	310 W Wa	all St S	Ste 500				Address:									5) (2)			of Projec				illeids []Ito	1_periana [
10	City, State ZIP:	Midland, T	X 797	701				City, Stat	e ZIP:			4							Report	ing:Leve	II 🗆	evel III	□sт	UST RRP	Level IV
46	Phone:	432-813-8	988				Email	: don.gos	ch@blac	ckbuckre	sourc	es.co	m	Track.						ables: E			ADaP		
31	Project Name:		Freed	lom State 36	SWD			Around									V010 I								
	Project Number:		1000	2334	OTTE		Routine	☑ Rush		Pres.					-	ANAL	YSIS	KEQU	ESI	Your					ative Codes
	Project Location	F	ddy C	County, New N	Mexico		Due Date:		Hr.	Code														None: NO	DI Water: H ₂ O
130	Sampler's Name:			GPJ & CMM	VICAICC		Due Date.	1 40	rii.			6												Cool: Cool	MeOH: Me
	PO#:	Charles and the			M					v		+ MRO)												HCL: HC H ₂ SO ₄ : H ₂	HNO ₃ : HN NaOH: Na
	SAMPLE RECEI	PT	Tem	p Blank:	Ye	s No	Wet Ice:	Yes	No	Parameters	m	DRO	0.0											H ₃ PO ₄ : HP	NaOH, Na
	Received Intact:		P	s No	Therm	ometer ID				ıram	8021B	+	e 300.0								The same			NaHSO ₄ : NABIS	S
-	Cooler Custody Seals		Yes	No N/A	Correc	ction Facto	r.			Pa	втех	(GRO	Chloride					W. No.						Na ₂ S ₂ O ₃ : NaSC	
-	Sample Custody Sea	ls:	Yes		Section 1	erature Re		45	۲			8015M (ភ											Zn Acetate+Nac	OH: Zn
-	Total Containers:				Correc	ted Tempe	erature:					Н 80												NaOH+Ascorbio	Acid: SAPC
CHIEB THE	Sample Iden	tification		Date		Γime	Soil	Water	Grab/ Comp	# of Cont		TPH												Sample	Comments
-	SW-11 (NS		8-1	-24	X		Comp	1	X	X	X											Lab #	
-	SW-12 (8/2/2024			X		Comp	1	X	X	X												2
	SW-13 (-8/2/2024			X		Comp	1	X	X	X				678							House a	3
-	SW-14 (8/2/2024	ATT AND		X		Comp	1	X	X	X	No Similar											4
	SW-15 (Maria de Maria	1	-8/2/2024			X		Comp	1	X	X	Х												5
-	SW-16 (8/2/2024			Х		Comp	1	X	X	X												6
-	SW-17 (-8/2/2024	935		X		Comp	1	X	X	X	19-316-1				ME SE							7
	SW-18 (And the state of		8/2/2024			Х	Mina!	Comp	1	X	X	X												8
	SW-19 ((1.5')	1	8/2/2024	-	1	X		Comp	1	X	X	X			ERST	Trans.						N Section		q

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Machelle Gonzales	8/5/24 9:24	Michelle Gonzales	7524 0924 8
11/100	85-24 1840	India Ilusso	8.5.24 1830
Indre Musso	8.5.24 2400		B-6-24 0830
	Page 30 of 34		

							Cl	nain	of (Cus	stoc	ly					V	Sork O	Order ob	r No: #	E 408 24036	033 -000\ 2 of4	Necessea by OCD: 8/20		
Project Manager:	Ashto	n Thielke	е			Bill to: (if	different)		Black	buck R	esourc	es				in the second		w	ork Or	der Co	omments				
Company Name:	Carm	ona Reso	ources			Company	Name:		Black	buck R	esourc	es				Program	: UST/P	The second		The state of the last	ields RC	perfund	124		
Address:	310 V	V Wall St	Ste 500			Address:										State of						Дрегтана	3		
City, State ZIP:	Midlar	nd, TX 79	9701			City, Stat	e ZIP:				U. B.					Reportin	g:Level II	Lev	el III [□st/u	ST TREP	evel IV			
Phone:	432-8	13-8988			Email	don.gos	ch@blac	kbuckre	sourc	es.cor	n					Deliveral				DaPT			04 /		
Project Name:		Free	edom State 36	SWD		Around							AN	ALYSIS	S REC	UEST Preservative Codes									
Project Number:			2334		☐ Routine	☑ Rush		Pres. Code	Dark.									T		1	None: NO	DI Water: I			
Project Location Sampler's Name:		Eddy	County, New I	Mexico	Due Date:	48	hr.			(0										C	Cool: Cool	MeOH: Me			
PO #:								Suc		+ MRO)											HCL: HC H ₂ S0 ₄ : H ₂	HNO ₃ : HN NaOH: Na			
SAMPLE RECEI	PT		mp Blank:	Yes No	Wet Ice:	Yes	No	Parameters	18	DRO	300.0									H	H₃PO₄: HP				
Received Intact:		(4)		Thermometer II		Single		araı	(802	40%	de 3									1	NaHSO ₄ : NAB	IS			
Cooler Custody Seals		ATTENDED NO.	No N/A	Correction Fact		400		Н	BTEX 8021B	8015M (GRO	Chloride									1	Na ₂ S ₂ O ₃ : NaS	O ₃			
Sample Custody Seal Total Containers:	IS.	Yes	No N/A	Temperature Re		16				015N	O										Zn Acetate+Na				
Sample Iden	tificati	on	Date	Corrected Temp	Soil Soil	Water	Grab/	# of		TPH 8(1	NaOH+Ascorb	ic Acid: SAPC Comments			
SW-20 ((1.5')	14:	8/2/202 中	8-1-24	X		Comp	Cont 1	X	X	X														
SW-21 (1	1	8/2/2024	1	X		Comp	1	X	X	X										lab#	10			
SW-22 ((1.5')		-8/2/2024		X		Comp	1	X	X	X											11			
SW-23 (-8/2/2024		X		Comp	1	X	X	X								5951			12			
CS-28 (1.5')		8/2/2024		X		Comp	1	X	X	X										Mark Supple	The second second			
CS-29 (1.5')		8/2/2024		X		Comp	1	X	X	X										S. Maria Sanata	14			
CS-30 (1.5')	STEET !	-8/2/2024		X		Comp	1	X	X	X				1							16			
CS-31 (1.5')		8/2/2024		X		Comp	1	X	X	X											17			
CS-32 (1.5')	1	-8/2/2024	上	X		Comp	1	X	X	Х										The Laborator	18			
Comments:	No.	CONTRACTOR					100			21			At Land					1				- 0			

Per A. Thielke, the sampled date is actually

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Mm/1-100 00 00 00 00 00 00 00 00 00 00 00 00	815129 9:24	Wichelle Gensales	8524 0924
1 Muhelle Gongalis	8524 1540	Lader Mosso,	8.5.4 1830
Indrew Mullo	8.5.24 2400		8-6-24 0830

		yo.													Work Ord	ler No:	E 408	033 soo(
Project Manager: Ashton Thielke					Bill to: (if different) Blackbuck Resources								Work Order Comments					
Company Name:	Carmona	Resources			Compan	y Name:		Blackbuck Resources						Program: UST/PST PRP _rownfields RC _{perfund				
Address:	310 W W	all St Ste 500			Address								7	f Project:		——————————————————————————————————————		
City, State ZIP:	Midland,	TX 79701			City, Sta	A TOTAL							Reporting:Level II					
Phone:				Emai	Email: don.gosch@blackbuckresources.com							Deliverables: EDD ADaPT Other:						
Project Name:	ect Name: Freedom State 36 SWD			Turr	189	ANALYSIS RE						FOUEST Preserv			Preservat	ive Codes		
Project Number:		2334		☐ Routine	☑ Rush	1.8	Pres. Code						THE			I N	lone: NO	DI Water: H ₂ C
Project Location	E	Eddy County, New Mexico		Due Date:	48 Hr.					130				-			Cool: Cool	MeOH: Me
Sampler's Name:		GPJ & CMM							+ MRO)		- 1					H	ICL: HC	HNO ₃ ; HN
PO #:			1				ers		1 0								I ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECE	Yes No N/A Correction Fact als: Yes No N/A Temperature Richards Corrected Temperature Richard		Wet Ice:	ce: Yes No		met	218	L DR	0.00						H	I₃PO₄: HP		
Received Intact:							# of Cont		TPH 8015M (GRO + DRO	ide 3							laHSO ₄ : NABIS	
Cooler Custody Sea Sample Custody Se				42		Chloride 300.0							1			Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC		
Total Containers:									3015	0								
Sample Ide				Soil	Water				TPH								Sample Comments	
SW-11	(1.5')	8/2/2024		Х		Comp	1	X	Х	Х							Lab #	1
SW-12	(1.5')	8/2/2024		Х		Comp	1	X	Х	Х								2
SW-13	(1.5')	8/2/2024		Х		Comp	1	X	Х	Х								3
SW-14	(1.5')	8/2/2024		Х		Comp	1	X	Х	Х								4
SW-15	(1.5')	8/2/2024		Х		Comp	1	X	Х	Х								5
SW-16	(1.5')	8/2/2024		Х		Comp	1	X	Х	Х								6
SW-17	(1.5')	8/2/2024		Х		Comp	1	X	Х	Х							31	7
SW-18	(1.5')	8/2/2024		Х	1	Comp	1	Х	Х	Х								8
SW-19	(1.5')	8/2/2024		X		Comp	1	X	X	X								9

Received by: (Signature) Relinquished by: (Signature) Date/Time Date/Time 9:24 1540 85-24 8.5.24 1830 B-6-24 0830 8.5.24 2400

roject Manager:	t Manager: Ashton Thielke				Bill to: (if		Black	buck F	Resource	es	Work Order Comments									
Company Name:	any Name: Carmona Resources				Compan		Blackbuck Resources					Program: UST/PST PRP rownfields RC perfund								
Address: 310 W Wall St Ste 500				Address:								State of Project:								
City, State ZIP: Midland, TX 79701				City, Star	e ZIP:								Repo	rting:Le	vel II	Level III	ı □sī	r/ust □RRP	Level IV	
hone: 432-813-8988			Ema	il: don.gos	kbuckre	kresources.com					Deliverables: EDD ☐ ADaPT ☐ Other:									
roject Name:		Freedom Stat	e 36 SWD	Tur	n Around			ANALYSIS R				YSIS RE	EQUEST					Preservative Codes		
roject Number:		2334	2334 ☐ Routine ☐ Rush				Pres. Code												None: NO	DI Water: H ₂ O
Project Location Sampler's Name:		Eddy County, N	section in	Due Date:	48	hr.			MRO)				- 2						Cool: Cool HCL: HC	MeOH: Me HNO ₃ : HN
SAMPLE RECE	EIPT	Temp Blank:	Yes No	Wet Ice:	Yes	No	Parameters	m	RO +	0.						-			H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP	NaOH: Na
Received Intact: Cooler Custody Seals: Sample Custody Seals:		(Yes) No	Thermomete		100		ram	8021B	+ 0	e 300									NaHSO ₄ : NABIS	S
				ctor:	4°c		Pa	втех	GRC	Chloride 300.0									Na ₂ S ₂ O ₃ : NaSO	
				Reading:					80151								Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:														NaOH+Ascorbic Acid: SAPC		
Sample Ide	entification	on Date	Time	Soil	Water	Grab/ Comp	# of Cont		TPH										Sample C	Comments
SW-20	(1.5')	8/2/20	24	Х	190	Comp	1	Х	Х	Х	7 = 1								Lab #	10
SW-21	1 (1.5')	8/2/20	24	Х		Comp	1	X	Х	Х										1 (
SW-22	2 (1.5')	8/2/20	24	Х		Comp	1	X	Х	Х										12
SW-23	3 (1.5')	8/2/20	24	Х		Comp	1	X	Х	X										13
CS-28	(1.5')	8/2/20	24	Х		Comp	1	X	Х	Х										14
CS-29	(1.5')	8/2/20	24	Х		Comp	1	X	Х	Х										15
CS-30	(1.5')	8/2/20	24	X		Comp	1	X	Х	Х	4 (6
CS-31	(1.5')	8/2/20	24	Х		Comp	1	Х	Х	Х										17
	(1.5')	8/2/20	24	Х		Comp	1	X	Х	Х							777			8

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
1/m/1-	815/24 9:24	Michelle Gonzales	8-5.24 0924
Whele Gongales	8524 1540	haden Holds	8.5.4 1830
Sndrew Mullo	8.5.24 2400	5	8-6-24 0830

Printed: 8/6/2024 9:23:13AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

	C P		, 1		•
Client:	Carmona Resources	Date Received:	08/06/24 08:30)	Work Order ID: E408033
Phone:	(432) 813-6823	Date Logged In:	08/05/24 16:18		Logged In By: Noe Soto
Email:		Due Date:	08/07/24 17:00) (1 day TAT)	
Chain of	Custody (COC)				
	te sample ID match the COC?		Yes		
	te number of samples per sampling site location mat	ch the COC	Yes		
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	Carrier. <u>c</u>	<u>Sourier</u>
	Il samples received within holding time?		Yes		
	Note: Analysis, such as pH which should be conducted in				Comments/Resolution
Commis T	i.e, 15 minute hold time, are not included in this disucssic	on.			Comments/Resolution
	urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		This Project has been separated between
			103		WOs E408033-E408034. Time sampled is
Sample C	ample cooler received?		Yes		<u>-</u>
	was cooler received in good condition?		Yes		missing on COC by client.
•	e sample(s) received intact, i.e., not broken?				
			Yes		
	custody/security seals present?		No		
	were custody/security seals intact?		NA		
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes		
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°C	<u>2</u>		
Sample C					
	queous VOC samples present?		No		
	OC samples collected in VOA Vials?		NA		
	head space less than 6-8 mm (pea sized or less)?		NA		
	trip blank (TB) included for VOC analyses?		NA		
	on-VOC samples collected in the correct containers?		Yes		
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes		
Field Lab					
	field sample labels filled out with the minimum info	rmation:	V		
	ample ID? ate/Time Collected?		Yes		
	ollectors name?		Yes No		
Sample P	reservation		110		
	the COC or field labels indicate the samples were pr	eserved?	No		
22. Are sa	imple(s) correctly preserved?		NA		
	filteration required and/or requested for dissolved m	netals?	No		
Multipha	se Sample Matrix				
	the sample have more than one phase, i.e., multiphase	se?	No		
	does the COC specify which phase(s) is to be analy		NA		
	act Laboratory				
	act Laboratory Imples required to get sent to a subcontract laborator	m r?	No		
	subcontract laboratory specified by the client and if	•		ocontract Lab	b: NA
	struction				
Chent II	isti uction				

Report to:
Conner Moehring







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Carmona Resources

Project Name: Freedom State 36 SWD

Work Order: E408034

Job Number: 24036-0001

Received: 8/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/7/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/7/24

Conner Moehring 310 West Wall St. Suite 415 Midland, TX 79701

Project Name: Freedom State 36 SWD

Workorder: E408034

Date Received: 8/6/2024 8:30:00AM

Conner Moehring,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2024 8:30:00AM, under the Project Name: Freedom State 36 SWD.

The analytical test results summarized in this report with the Project Name: Freedom State 36 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

ſ	Carmona Resources	Project Name:	Freedom State 36 SWD	Donoutode
l	310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
l	Midland TX, 79701	Project Manager:	Conner Moehring	08/07/24 12:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-33 (1.5')	E408034-01A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-34 (1.5')	E408034-02A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-35 (1.5')	E408034-03A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-36 (1.5')	E408034-04A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-37 (1.5')	E408034-05A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-38 (1.5')	E408034-06A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-39 (1.5')	E408034-07A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-40 (1.5')	E408034-08A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-41 (1.5')	E408034-09A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-42 (1.5')	E408034-10A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-43 (1.5')	E408034-11A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-44 (1.5')	E408034-12A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-45 (1.5')	E408034-13A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
CS-46 (1.5')	E408034-14A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.
SW-5 (1.5')	E408034-15A	Soil	08/01/24	08/06/24	Glass Jar, 2 oz.

Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-33 (1.5') E408034-01

		E408034-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	31.2	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		109 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2432028
Chloride	ND	200	10	08/06/24	08/06/24	

Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-34 (1.5')

E408034-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		89.2 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		108 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2432028
Chloride	165	20.0	1	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-35 (1.5')

E408034-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		89.2 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		96.4 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2432028
Chloride	364	20.0	1	08/06/24	08/06/24	



Chloride

Sample Data

Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-36 (1.5')

E408034-04 Reporting Analyte Limit Dilution Analyzed Notes Result Prepared Analyst: BA Batch: 2432022 mg/kg mg/kg Volatile Organics by EPA 8021B 08/07/24 ND 0.0250 08/06/24 Benzene 1 08/06/24 08/07/24 Ethylbenzene ND 0.0250ND 0.025008/06/24 08/07/24 Toluene 1 08/06/24 08/07/24 o-Xylene ND 0.02501 08/06/24 08/07/24 ND 0.0500 p,m-Xylene 08/06/24 08/07/24 1 Total Xylenes ND 0.025008/07/24 88.2 % 70-130 08/06/24 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: BA Batch: 2432022 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 08/07/24 ND 20.0 1 08/06/24 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 107 % 08/06/24 08/07/24 70-130 mg/kg mg/kg Analyst: KM Batch: 2432031 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 08/06/24 08/06/24 Diesel Range Organics (C10-C28) 08/06/24 08/06/24 Oil Range Organics (C28-C36) ND 50.0 1 08/06/24 08/06/24 Surrogate: n-Nonane 104 % 50-200 Analyst: JM Batch: 2432028 Anions by EPA 300.0/9056A mg/kg mg/kg

20.0

264

1

08/06/24

08/06/24



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-37 (1.5')

E408034-05						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		88.6 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		105 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: JM		Batch: 2432028
Chloride	ND	200	10	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-38 (1.5')

E408034-06						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		108 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2432028
Chloride	ND	200	10	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-39 (1.5')

		E408034-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		116 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2432028
Chloride	ND	200	10	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-40 (1.5')

E408034-08						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		123 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: JM		Batch: 2432028
Chloride	ND	200	10	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-41 (1.5')

E408034-09						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		88.6 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		122 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2432028
Chloride	77.6	20.0	1	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-42 (1.5')

E408034-10						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		89.5 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/06/24	
Surrogate: n-Nonane		112 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: JM		Batch: 2432028
Chloride	286	20.0	1	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-43 (1.5')

		E408034-11									
Reporting											
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes					
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2432022					
Benzene	ND	0.0250	1	08/06/24	08/07/24						
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24						
Toluene	ND	0.0250	1	08/06/24	08/07/24						
o-Xylene	ND	0.0250	1	08/06/24	08/07/24						
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24						
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24						
Surrogate: 4-Bromochlorobenzene-PID		90.3 %	70-130	08/06/24	08/07/24						
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2432022					
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24						
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	08/06/24	08/07/24						
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2432031					
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24						
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24						
Surrogate: n-Nonane		110 %	50-200	08/06/24	08/07/24						
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2432028					
Chloride	333	200	10	08/06/24	08/06/24						



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-44 (1.5')

		E408034-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		89.6 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane		112 %	50-200	08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2432028
Chloride	ND	200	10	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-45 (1.5')

E408034-13

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		88.8 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane		113 %	50-200	08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2432028
Chloride	505	200	10	08/06/24	08/06/24	·



Sample Data

Carmona Resources	Project Name:	Freedom State 36 SWD	
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Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

CS-46 (1.5')

		E408034-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane		111 %	50-200	08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2432028
Chloride	283	200	10	08/06/24	08/06/24	



Carmona Resources	Project Name:	Freedom State 36 SWD	
310 West Wall St. Suite 415	Project Number:	24036-0001	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	8/7/2024 12:28:51PM

SW-5 (1.5')

		E408034-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2432022
Benzene	ND	0.0250	1	08/06/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/06/24	08/07/24	
Toluene	ND	0.0250	1	08/06/24	08/07/24	
o-Xylene	ND	0.0250	1	08/06/24	08/07/24	
o,m-Xylene	ND	0.0500	1	08/06/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/06/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2432031
Diesel Range Organics (C10-C28)	ND	25.0	1	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
Surrogate: n-Nonane		109 %	50-200	08/06/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2432028
Chloride	ND	200	10	08/06/24	08/06/24	



Freedom State 36 SWD Carmona Resources Project Name: Reported: 310 West Wall St. Suite 415 Project Number: 24036-0001 Midland TX, 79701 Project Manager: Conner Moehring 8/7/2024 12:28:51PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Prepared: 08/06/24 Analyzed: 08/06/24 Blank (2432022-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 6.99 8.00 87.4 70-130 LCS (2432022-BS1) Prepared: 08/06/24 Analyzed: 08/06/24 5.23 105 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.88 0.0250 5.00 97.6 70-130 5.14 0.0250 5.00 103 70-130 Toluene o-Xylene 4.98 0.0250 5.00 99.6 70-130 10.0 10.0 100 70-130 0.0500 p.m-Xvlene 100 70-130 15.0 15.0 Total Xylenes 0.0250 8.00 88.2 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.06 Matrix Spike (2432022-MS1) Source: E408034-09 Prepared: 08/06/24 Analyzed: 08/07/24 5.34 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.97 0.0250 5.00 99.4 Toluene 5.24 0.0250 5.00 ND 105 61-130 ND 63-131 5.06 5.00 101 0.0250 o-Xylene p,m-Xylene 10.2 0.0500 10.0 ND 102 63-131 15.3 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.09 8.00 Matrix Spike Dup (2432022-MSD1) Source: E408034-09 Prepared: 08/06/24 Analyzed: 08/07/24 5.41 0.0250 5.00 ND 54-133 1.41 61-133 5.07 0.0250 5.00 ND 101 1.95 20 Ethylbenzene 61-130 Toluene 5 32 0.0250 5.00 ND 106 1.57 20 5.16 5.00 ND 103 63-131 1.96 20 o-Xylene 0.0250 10.4 10.0 ND 104 63-131 1.90 20 p,m-Xylene 0.0500



15.6

7.18

0.0250

15.0

8.00

ND

104

89.7

63-131

70-130

1.92

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Freedom State 36 SWD Carmona Resources Project Name: Reported: 310 West Wall St. Suite 415 Project Number: 24036-0001 Midland TX, 79701 Project Manager: Conner Moehring 8/7/2024 12:28:51PM

Nonhalogenated Organics by	EPA 8015D - GRO
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Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432022-BLK1)							Prepared: 0	8/06/24 Anal	yzed: 08/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			
LCS (2432022-BS2)							Prepared: 0	8/06/24 Anal	yzed: 08/07/24
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.75		8.00		109	70-130			
Matrix Spike (2432022-MS2)				Source:	E408034-0	09	Prepared: 0	8/06/24 Anal	yzed: 08/07/24
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.75		8.00		109	70-130			
Matrix Spike Dup (2432022-MSD2)				Source:	E408034-0	09	Prepared: 0	8/06/24 Anal	yzed: 08/07/24
Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.6	70-130	4.58	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			



Carmona ResourcesProject Name:Freedom State 36 SWDReported:310 West Wall St. Suite 415Project Number:24036-0001Midland TX, 79701Project Manager:Conner Moehring8/7/2024 12:28:51PM

Wildiana 17, 77701		1 Toject Ivianage		mici wociiiii	15				7772021 12.20.3111
	Nonha	logenated Or	ganics by l	EPA 8015I	O - DRO	ORO/			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432031-BLK1)							Prepared: 0	8/06/24 Ana	alyzed: 08/06/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			
LCS (2432031-BS1)							Prepared: 0	8/06/24 Ana	alyzed: 08/06/24
Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132			
Surrogate: n-Nonane	61.8		50.0		124	50-200			
Matrix Spike (2432031-MS1)				Source:	E408034-0	04	Prepared: 0	8/06/24 Ana	alyzed: 08/06/24
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			
Matrix Spike Dup (2432031-MSD1)				Source:	E408034-0	04	Prepared: 0	8/06/24 Ana	alyzed: 08/06/24
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132	3.88	20	
Surrogate: n-Nonane	58.0		50.0		116	50-200			

Carmona Resources 310 West Wall St. Suite 415		Project Name: Project Number:		Freedom State 3	86 SWD				Reported:
Midland TX, 79701		Project Manager:	: (Conner Moehrii	ng			8/7/2024 12:28:51PM	
		Anions	by EPA	300.0/9056	1				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432028-BLK1)							Prepared: 0	8/06/24	Analyzed: 08/06/24
Chloride	ND	20.0							
LCS (2432028-BS1)							Prepared: 0	8/06/24	Analyzed: 08/06/24
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2432028-MS1)				Source:	E408034-	04	Prepared: 0	8/06/24	Analyzed: 08/06/24
Chloride	483	20.0	250	264	87.3	80-120			
Matrix Spike Dup (2432028-MSD1)				Source:	E408034-	04	Prepared: 0	8/06/24	Analyzed: 08/06/24
Chloride	502	20.0	250	264	95.0	80-120	3.91	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Carmona ResourcesProject Name:Freedom State 36 SWD310 West Wall St. Suite 415Project Number:24036-0001Reported:Midland TX, 79701Project Manager:Conner Moehring08/07/24 12:28

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



								C	nain	ot (Cus	stoc	ly										:E4080; .4036-00	
oject Manager:	Ashton	Thielke					Bill to: (if	different)		Black	buck R	esourc	es				7 [Work	Order	Page3	of4
mpany Name:	Carmo	na Reso	urces			AUX STATE	Compan			T. State of	31.57	esourc	VIOLEN IN				P	rogran	n: UST/	PST [1	nfields RC	€ perfund
dress:	310 W	Wall St	Ste 500				Address	(Carlo	ext.													□low!	meius Like	periund
y, State ZIP:	Midland	d, TX 79	701		1288								1						HALFAULT.		evel III	Пѕт	UST TREP	Level IV
one:	432-81	3-8988				Email:	The Control of the Co		ckbuckre	sourc	es coi	m												L.C.C.IV
piect Name:		Eroo	dom State 26	CIMID							00.00											7,1501	- Other.	
	30000	Freed		SVVD					Pres.					-	ANAL	YSIS R	EQUE	ST				1	Preserva	tive Codes
		E.U.							Code		a least												None: NO	DI Water: H ₂ O
		Eddy		Mexico		Due Date:	48	hr.			6	0.8											Cool: Cool	MeOH: Me
#;	name.		Of 3 & Civilvi																			A CONTRACTOR OF THE PARTY OF TH	HNO ₃ : HN	
MPLE RECEI	PT	Tem	n Blank	Yes	s No	Wet Ice:	(Con	No	ters	_	40%	0												NaOH: Na
ceived Intact:		2000		Table 1		vvet ice.	(Iea	INO	аше	021E	+	300.												
oler Custody Seals	:		/	Correct	tion Factor				Par	EX 8	GRO	oride												
mple Custody Sea	s:	Yes	No N/A	Tempe	rature Rea	ading:	400			BT	5M (Chic												
al Containers:				Correct	ted Tempe	erature:					801												The second second	
Sample Iden	tificatio	n	Date	Т	ime	Soil	Water	Grab/ Comp	# of Cont		ТРН												Sample (Comments
CS-33 (1.5')	HS	-8/2/2024	8-	1-24	X		Comp	1	X	X	X			The second								laht	1
CS-34 (1.5')		8/2/2024			Х		Comp	1	X	Х	X									40 PA		EQU TT	2
CS-35 (1.5')		-8/2/202 4			X		Comp	1	X	Х	X												3
CS-36 (1.5')		-8/2/20 24			X		Comp	1	X	Х	Х						TAN E			16 17			4
CS-37 (1.5')	dispersion of	8/2/2024			X		Comp	1	X	X	X												5
			-8/2/2024			X		Comp	1	X	X	X									M RI			6
CS-39 (1.5')		8/2/2024			X		Comp	1	X	X	Х				1								7
CS-40 (1.5')		_8/2/2024			X		Comp	1	X	X	X										4	Description of	8
CS-41 (1.5')	上	8/2/2024	L		Х		Comp	1	X	X	X			Speni									9
y con a con	iect Name: iect Number: iect Location inpler's Name: iect Custody Seals inple Custody Seals inple Custody Seals incomainers: Sample Iden CS-33 (CS-34 (CS-35 (CS-36 (CS-37 (CS-38 (CS-39 (CS-40 (CS-41 (Midland A32-81 Ject Name: Ject Name: Ject Location Impler's Name: Ject Location Imple Location	State ZIP: Midland, TX 79	State ZIP: Midland, TX 79701	Midland, TX 79701	Midland, TX 79701 Midl	Midland, TX 79701 Midland Mid	State ZIP Midland, TX 79701 City, State ZIP Midland ZiP City State ZiP City	State ZIP: Midland, TX 79701 City, State ZIP: Midland, TX 79701 City, State ZIP: Midland, TX 79701 City, State ZIP: don.gosch@blanter. don.gosch@blanter. 2334 Dect Number: 2334 Dect Number: 2334 Dect Number: 2334 Dect Number: 24 Number: 24 Number: 24 Number: 24 Number: 25	State ZIP: Midland, TX 79701 City, State ZIP:	State ZIP: Midland, TX 79701 City, State ZIP:	State ZIP: Midland, TX 79701 City, State ZIP:	State ZIP Midland, TX 79701 City, State ZIP:	State ZIP Midland, TX 79701 City, State ZIP	State ZIP Midland, TX 79701	State ZIP Midland, TX 79701	City, State ZIP: Midfand, TX 79701	City, State ZIP:	State ZIP	State ZIP: Midland, TX 79701	State ZIP: Midland, TX 79701	State ZIP	State ZIP Midland, TX 79701	State ZIP Midland, TX 79701

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
1 /my/1-100 6 8 0	8/5/24 9:24	A Michelle Goognes	8524 6924 8
10 Midwelle Classifies	8.5.24 1540	Inde Milo	8.5.24 1830
Indre Subbo	8.5.24 2400		8-6-240830
	Page 26 of 30		f271

Project Manager:

Company Name:

City, State ZIP:

Address:

Ashton Thielke

Carmona Resources

Midland, TX 79701

310 W Wall St Ste 500

Blackbuck Resources

Blackbuck Resources

Bill to: (if different)

Company Name:

City, State ZIP:

Address:

Work Order No: <u>E</u>	Bandan Ar OCD. 0/
Page4 of4	3
Work Order Comments	3
UST/PST PRP rownfields RC perfund Project:	340.
:Level II	17.0
es: EDD	
Preservative Codes	11
None: NO DI Water: H ₂ O	3
Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN	
H ₂ SO ₄ : H ₂ NaOH: Na	0
H DO - HD	

Program:

State of P

Reporting

Phone:	432-	-813-8988	8				Email: don.gosch@blackbuckresources.com Deliverables: EDD ADaPT Other.																		
Project Name:		Fre	eedo	om State 36	SWD		Turn	Around		Bank,						ANAL	YSIS	REQ	JEST					Preserva	ative Codes
Project Number:				2334			☐ Routine	☑ Rush		Pres. Code												YES.		None: NO	DI Water: H ₂ O
Project Location		Eddy		ounty, New I	The second second	0	Due Date:	48	hr.															Cool: Cool	MeOH: Me
Sampler's Name: PO #:			(GPJ & CMM								+ MRO)												HCL: HC H ₂ S0 ₄ : H ₂	HNO ₃ : HN NaOH: Na
SAMPLE REC	CEIPT		200/2011/20	Blank:	Y	es No	Wet Ice:	P	No	arameters	18	DRO 4	300.0											H ₃ PO ₄ : HP	NaOH, Na
Received intact:			9	The state of the s		nometer ID				aran	8021B	+ 02												NaHSO ₄ : NABI	S
Cooler Custody S			State Service			ection Facto		400		<u>a</u>	втех	1 (GF	Chloride						1		150			Na ₂ S ₂ O ₃ : NaSo	O_3
Sample Custody Total Containers:		Yes		No N/A		perature Re ected Temp		1 C				TPH 8015M (GRO	O											Zn Acetate+Na NaOH+Ascorbi	
Sample	Identifica	ation		Date		Time	Soil	Water	Grab/ Comp	# of Cont		ТРН												Sample	Comments
CS-	42 (1.5')	K	15	8/2/2024	-8	1-1-24	X		Comp	1	X	X	X											Lab #	10
CS-	43 (1.5')		1	8/2/2024			X		Comp	1	X	X	X												11
CS-	44 (1.5')			8/2/2024			X	of the state of	Comp	1	X	X	Х									186	27/9		12
CS-	45 (1.5')		-	8/2/2024			X		Comp	1	X	X	X										187		13
A STATE OF THE PARTY OF THE PAR	46 (1.5')			8/2/2024			X		Comp	1	X	X	X												14
SW	/-5 (1.5')	7	1	8/2/2024		+	X		Comp	1	X	X	X												15
								· Company																	
																	Date:			STATE OF THE PARTY		Call of	Philips .		

Per A. Thielke, the sampled date is actually 8-1-24

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
-1/hm/ /	8/5/24 9:24	a Myhelle Gonzales	8-5-24 0924
a Michelle Generales	8524 1540 ,	Inda 1880	8.5.4 1830
Indeal Helso	8.5.4 400	24	8-6-24 0830

Project Manager:

Company Name:

City, State ZIP:

Project Name:

Project Number:

Project Location

Sampler's Name:

Received Intact:

SAMPLE RECEIPT

Address:

Phone:

PO #:

Ashton Thielke

Carmona Resources

Midland, TX 79701

432-813-8988

310 W Wall St Ste 500

Freedom State 36 SWD

2334

Eddy County, New Mexico

GPJ & CMM

No

Temp Blank:

Yes

Blackbuck Resources

Blackbuck Resources

MRO)

DRO+

Bill to: (if different)

Company Name:

City, State ZIP:

48 hr.

(Yes) No

Email: don.gosch@blackbuckresources.com

Pres.

Code

Parameters

Address:

☑ Rush

Turn Around

☐ Routine

Due Date:

Wet Ice:

Yes No

Thermometer ID:

		0: <u>E408034</u> 24036 - 0001 Page 3 of 4 Comments Infields RC { perfund RRP Level IV PT Other:
		Page3 of4
State of P	Level II Level III S	/nfields RC
IEST		Preservative Codes
		None: NO DI Water: H ₂ O
1		Cool: Cool MeOH: Me HCL: HC HNO3: HN H2S04: H2 NaOH: Na H3PO4: HP NaHSO4: NABIS Na2S2O3: NaSO3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
		Sample Comments
		Lab# 1
		3

ANALYSIS REQUEST

TPH 8015M (GRO + Cooler Custody Seals: Yes No N/A Correction Factor: 400 Yes No N/A Sample Custody Seals: Temperature Reading: **Total Containers:** Corrected Temperature: Grab/ # of Sample Identification Date Time Soil Water Cont Comp CS-33 (1.5') X 8/2/2024 Comp 1 X X X CS-34 (1.5') 8/2/2024 X Comp 1 X X X CS-35 (1.5') 8/2/2024 X Comp X X 1 X CS-36 (1.5') 8/2/2024 X Comp 1 X X X 4 CS-37 (1.5') X 8/2/2024 Comp X X X 5 CS-38 (1.5') 8/2/2024 X X Comp 1 X X CS-39 (1.5') Х 8/2/2024 Comp X X X 7 X 8 CS-40 (1.5') 8/2/2024 Comp 1 X X X X CS-41 (1.5') 8/2/2024 X X 9 Comp Comments:

Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time 9:24 8.5.24 540

Work Order No るな 井 2	: <u>E4080</u> 4036-0	001 ool
	Page4	of4 {\ perfund \ \ \
Work Order 0	Comments	
/PST PRP rown	fields RC	
III	UST RRP T Other:	evel IV
	Preservat	ive Codes
9	None: NO Cool: Cool	DI Water: H ₂ O MeOH: Me

Project Manager:	Ashton Th	nielke			Bill to: (if	different)		Blackbuck Resources							Work Order Comments										
Company Name:	Carmona	Resources		47	Company	y Name:		Black	buck F	esourc	es					Program:	UST/PS	вт 🗀 Р	RP 🔲	rownfie	elds RC	perfund			
Address:	310 W W	all St Ste 500			Address:				May.							State of P	oject:								
City, State ZIP:	Midland,	TX 79701			City, Stat	te ZIP:										Reporting:I	evel II	Leve	el III]ST/US	ST RRP	_evel IV			
Phone:	432-813-8	3988		Emai	l: don.gos	ch@blad	ckbuckre	esourc	es.co	<u>n</u>						Deliverable	s: EDI		Α	DaPT [Γ □ Other:				
Project Name:		Freedom State 36	SWD	Tur	n Around								ANAL	/SIS R	EQU	EST					Preserv	ative Codes			
Project Number:		2334		☐ Routine	☑ Rush			☑ Rush							1 "							N	lone: NO	DI Water: H	120
Project Location	Е	Eddy County, New	Mexico	Due Date:	48	hr.	# 1		LUX.											С	ool: Cool	MeOH: Me			
Sampler's Name:		GPJ & CMN	1						MRO)							- 1				Н	ICL: HC	HNO ₃ : HN			
PO #:	Maria						5		+											Н	l ₂ S0 ₄ : H ₂	NaOH: Na			
SAMPLE RECEI	PT	Temp Blank:	Yes No	Wet Ice:	(Ve)s	No	Parameters	18	DRO	300.0										Н	I₃PO₄: HP				
Received Intact:		(e) No	Thermometer I	D:			arar	8021B	0	le 3(N	laHSO ₄ : NAB	IS			
Cooler Custody Seals	3:	Yes No N/A	Correction Fac	tor:		A-mh.	à	ВТЕХ	(GRO	Chloride			1 1							N	la ₂ S ₂ O ₃ : NaS	O ₃			
Sample Custody Sea	ls:	Yes No N/A	Temperature R	eading:	400			0	8015M (ភ		-								Z	n Acetate+Na	aOH: Zn			
Total Containers:			Corrected Tem	perature:					1 80	1-				1 2			-			N	aOH+Ascorb	oic Acid: SAPC			
Sample Iden	tification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		TPH												Sample	Comments			
CS-42 ((1.5')	8/2/2024	_	Х		Comp	1	Х	X	Х										L	# da	10			
CS-43 ((1.5')	8/2/2024		Х		Comp	1	Х	Х	Х												11			
CS-44 ((1.5')	8/2/2024		Х		Comp	1	Х	X	Х						,	.e					12			
CS-45 ((1.5')	8/2/2024		Х		Comp	1	Х	Х	Х												13			
CS-46 ((1.5')	8/2/2024		Х		Comp	1	Х	X	Х												14			
SW-5 (1.5')	8/2/2024		Х		Comp	1	Х	Х	Х												15			
																							18		
					-										- 37										

Comments:

/ / Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
1 line 16	8/5/24 9:24	1. Vighelle Gonzales	8-5-24 0924
a Mighelle Gonzales	8524 1840	Indead HSS	8.5.24 1830
Judan Itals	8.5.4 2400		8-6-24 0830
	D		
	Page 29 of 30		

Printed: 8/6/2024 9:27:24AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

	8		,		V	-
Client:	Carmona Resources	Date Received:	08/06/24 08:3	0	Work Order ID: E408034	
Phone:	(432) 813-6823	Date Logged In:	08/05/24 16:3	5	Logged In By: Noe Soto	
Email:	cmoehring@carmonaresouces.com	Due Date:	08/07/24 17:0	0 (1 day TAT)		
Chain of	Custody (COC)					
1. Does th	e sample ID match the COC?		Yes			
2. Does th	e number of samples per sampling site location mat	ch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		Yes		Comments/Resolution	
Sample T	urn Around Time (TAT)					
	COC indicate standard TAT, or Expedited TAT?		Yes		This Project has been separated between	n
Sample C	Cooler_				WOs E408033-E408034. Time sampled	l is
7. Was a s	ample cooler received?		Yes		missing on COC by client.	
8. If yes,	was cooler received in good condition?		Yes		and the second s	
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes			
Sample C		temperature. 1	<u>~</u>			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab						
	field sample labels filled out with the minimum info	rmation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes			
	ollectors name?		No			
	reservation	10				
	the COC or field labels indicate the samples were pr	eserved?	No			
	ample(s) correctly preserved?	-4-1-9	NA			
	filteration required and/or requested for dissolved m	etais?	No			
	se Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA			
Subcontr	act Laboratory					
	imples required to get sent to a subcontract laborator subcontract laboratory specified by the client and if	•	No NA Su	bcontract Lab	o: NA	
Client In	struction					

Date

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/9/2024 12:59:37 PM

JOB DESCRIPTION

Freedom State 36 SWD Eddy County, New Mexico

JOB NUMBER

880-47006-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 8/9/2024 12:59:37 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies 8/9/2024

Client: Carmona Resources Project/Site: Freedom State 36 SWD Laboratory Job ID: 880-47006-1 SDG: Eddy County, New Mexico

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Definitions/Glossary

Job ID: 880-47006-1 Client: Carmona Resources Project/Site: Freedom State 36 SWD SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** S1-

Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Freedom State 36 SWD

Job ID: 880-47006-1

Job ID: 880-47006-1 Eurofins Midland

Job Narrative 880-47006-1

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

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

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

Receipt

The sample was received on 8/8/2024 8:22 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW-17 (1.5') (880-47006-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87886 and analytical batch 880-87894 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87927 and analytical batch 880-87944 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Carmona Resources Project/Site: Freedom State 36 SWD

Job ID: 880-47006-1 SDG: Eddy County, New Mexico

Lab Sample ID: 880-47006-1

Matrix: Solid

Client Sample ID: SW-17 (1.5')
Date Collected: 08/01/24 16:30

Date Received: 08/08/24 08:22

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 14:11	
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 14:11	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 14:11	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 14:11	
o-Xylene	0.00675		0.00200		mg/Kg		08/08/24 08:30	08/08/24 14:11	
Xylenes, Total	0.00675		0.00400		mg/Kg		08/08/24 08:30	08/08/24 14:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		70 - 130				08/08/24 08:30	08/08/24 14:11	
1,4-Difluorobenzene (Surr)	92		70 - 130				08/08/24 08:30	08/08/24 14:11	
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00675		0.00400		mg/Kg			08/08/24 14:11	•
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) ((GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			08/08/24 16:50	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/24 11:53	08/08/24 16:50	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/24 11:53	08/08/24 16:50	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/24 11:53	08/08/24 16:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 130				08/08/24 11:53	08/08/24 16:50	
o-Terphenyl	106		70 - 130				08/08/24 11:53	08/08/24 16:50	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
			5.02		mg/Kg	_		08/09/24 07:03	

Surrogate Summary

Client: Carmona Resources

Job ID: 880-47006-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-47002-A-1-B MS	Matrix Spike	91	102	
880-47002-A-1-C MSD	Matrix Spike Duplicate	91	101	
880-47006-1	SW-17 (1.5')	103	92	
LCS 880-87824/1-A	Lab Control Sample	90	109	
LCSD 880-87824/2-A	Lab Control Sample Dup	91	107	
MB 880-87824/5-A	Method Blank	92	84	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-46847-A-1-H MS	Matrix Spike	114	121
880-46847-A-1-I MSD	Matrix Spike Duplicate	111	115
880-47006-1	SW-17 (1.5')	94	106
LCS 880-87886/2-A	Lab Control Sample	100	102
LCSD 880-87886/3-A	Lab Control Sample Dup	94	93
MB 880-87886/1-A	Method Blank	69 S1-	81

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources Job ID: 880-47006-1 SDG: Eddy County, New Mexico Project/Site: Freedom State 36 SWD

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87824/5-A

Matrix: Solid

Analysis Batch: 87819

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87824

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 11:17	1

мв мв

Surrogate	%Recovery C	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/08/24 08:30	08/08/24 11:17	1
1.4-Difluorobenzene (Surr)	84		70 - 130	08/08/24 08:30	08/08/24 11:17	1

Lab Sample ID: LCS 880-87824/1-A

Matrix: Solid

Analysis Batch: 87819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87824

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09419		mg/Kg		94	70 - 130	
Toluene	0.100	0.07935		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.08419		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1609		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.08327		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-87824/2-A

Matrix: Solid

Analysis Batch: 87819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87824

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09478		mg/Kg		95	70 - 130	1	35	
Toluene	0.100	0.07984		mg/Kg		80	70 - 130	1	35	
Ethylbenzene	0.100	0.08471		mg/Kg		85	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1634		mg/Kg		82	70 - 130	2	35	
o-Xylene	0.100	0.08470		mg/Kg		85	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-47002-A-1-B MS

Matrix: Solid

Analysis Batch: 87819

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

Prep Batch: 87824

	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.09186		mg/Kg		92	70 - 130	
Toluene	<0.00202	U	0.100	0.07941		mg/Kg		79	70 - 130	

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QC Sample Results

Client: Carmona Resources Job ID: 880-47006-1 Project/Site: Freedom State 36 SWD SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47002-A-1-B MS

Lab Sample ID: 880-47002-A-1-C MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 87819

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87824

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00202 U 0.100 0.08549 85 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00404 0.200 0.1667 mg/Kg 83 70 - 130 0.100 o-Xylene <0.00202 U 0.08378 84 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87824

RPD

Analysis Batch: 87819 Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00202 U 0.08943 mg/Kg 89 70 - 130 3 35 0.07623 Toluene <0.00202 U 0.100 mg/Kg 76 70 - 130 4 35 Ethylbenzene <0.00202 U 0.100 0.08211 mg/Kg 82 70 - 130 35 0.200 0.1603 70 - 130 35 m-Xylene & p-Xylene <0.00404 U mg/Kg 80 0.100 <0.00202 U 0.08070 81 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qu	alifier Limits	5
4-Bromofluorobenzene (Surr)	91	70 - 13	30
1,4-Difluorobenzene (Surr)	101	70 - 13	30

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

Lab Sample ID: MB 880-87886/1-A

Matrix: Solid

Analysis Batch: 87894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87886

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/24 08:53	08/08/24 09:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/24 08:53	08/08/24 09:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/24 08:53	08/08/24 09:36	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	08/08/24 08:53	08/08/24 09:36	1
o-Terphenyl	81		70 - 130	08/08/24 08:53	08/08/24 09:36	1

Lab Sample ID: LCS 880-87886/2-A

Matrix: Solid

Analysis Batch: 87894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87886

	Spik	e LCS	LCS				%Rec	
Analyte	Adde	d Result	Qualifier	Unit I	D %F	Rec	Limits	
Gasoline Range Organics	100	0 848.3		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	100	0 946.0		mg/Kg		95	70 - 130	
C10-C28)								

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Client: Carmona Resources Job ID: 880-47006-1 Project/Site: Freedom State 36 SWD SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-87886/2-A

Matrix: Solid

Analysis Batch: 87894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87886

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 100 70 - 130 o-Terphenyl 102 70 - 130

Lab Sample ID: LCSD 880-87886/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 87894

Prep Type: Total/NA

Prep Batch: 87886

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 824.9 82 70 - 130 3 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 858.8 mg/Kg 86 70 - 13010 20 C10-C28)

LCSD LCSD

Sample Sample

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	93	70 - 130

Lab Sample ID: 880-46847-A-1-H MS Client Sample ID: Matrix Spike

Me Me

Matrix: Solid

Analysis Batch: 87894

Prep Type: Total/NA

Prep Batch: 87886

	Sample	Sample	Spike	IVIO	IVIO				70 KeC	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.4	U	997	848.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	186		997	1005		mg/Kg		82	70 - 130	
C10 C28)										

Cnika

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 114 o-Terphenyl 121 70 - 130

Lab Sample ID: 880-46847-A-1-I MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Cailes

Analysis Batch: 87894

Prep Type: Total/NA Prep Batch: 87886

	Sample	Sample	Spike	M2D	M2D				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.4	U	997	808.3		mg/Kg		81	70 - 130	5	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	186		997	954.2		mg/Kg		77	70 - 130	5	20	
0.40, 0.00)												

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

MSD	MSD	
%Recovery	Qualifier	Limits
111		70 - 130
115		70 - 130

Camania Camania

Eurofins Midland

QC Sample Results

Client: Carmona Resources Job ID: 880-47006-1 Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87927/1-A

Matrix: Solid

Analysis Batch: 87944

мв мв

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 08/09/24 06:21

Lab Sample ID: LCS 880-87927/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 87944

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 257.7 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-87927/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 87944

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 257.7 mg/Kg 103 90 - 110

Lab Sample ID: 880-46956-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 87944

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 1250 Chloride 1510 F1 3011 F1 120 90 - 110 mg/Kg

Lab Sample ID: 880-46956-A-1-C MSD

Matrix: Solid

Analysis Batch: 87944

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 1510 F1 1250 2993 F1 mg/Kg 119 90 - 110 20

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-47006-1 SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 87819

Lab Sample ID 880-47006-1	Client Sample ID SW-17 (1.5')	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 87824
MB 880-87824/5-A	Method Blank	Total/NA	Solid	8021B	87824
LCS 880-87824/1-A	Lab Control Sample	Total/NA	Solid	8021B	87824
LCSD 880-87824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87824
880-47002-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	87824
880-47002-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87824

Prep Batch: 87824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47006-1	SW-17 (1.5')	Total/NA	Solid	5035	
MB 880-87824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47002-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-47002-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47006-1	SW-17 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47006-1	SW-17 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-87886/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87886/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87886/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46847-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46847-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47006-1	SW-17 (1.5')	Total/NA	Solid	8015B NM	87886
MB 880-87886/1-A	Method Blank	Total/NA	Solid	8015B NM	87886
LCS 880-87886/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87886
LCSD 880-87886/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87886
880-46847-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	87886
880-46847-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87886

Analysis Batch: 88008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47006-1	SW-17 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47006-1	SW-17 (1.5')	Soluble	Solid	DI Leach	
MB 880-87927/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87927/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87927/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

Page 12 of 19

QC Association Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-47006-1

SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 87927 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46956-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-46956-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 87944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47006-1	SW-17 (1.5')	Soluble	Solid	300.0	87927
MB 880-87927/1-A	Method Blank	Soluble	Solid	300.0	87927
LCS 880-87927/2-A	Lab Control Sample	Soluble	Solid	300.0	87927
LCSD 880-87927/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87927
880-46956-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	87927
880-46956-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87927

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Lab Chronicle

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-47006-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-47006-1

Matrix: Solid

Client Sample ID: SW-17 (1.5')

Date Collected: 08/01/24 16:30 Date Received: 08/08/24 08:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87983	08/08/24 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			88008	08/08/24 16:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87886	08/08/24 11:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87894	08/08/24 16:50	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87927	08/08/24 14:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87944	08/09/24 07:03	CH	EET MID

Laboratory References:

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

Eurofins Midland

Released to Imaging: 9/10/2024 10:46:31 AM

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-47006-1

Project/Site: Freedom State 36 SWD

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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3

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6

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Method Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-47006-1

SDG: Eddy County, New Mexico

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources

Project/Site: Freedom State 36 SWD

Job ID: 880-47006-1

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47006-1	SW-17 (1.5')	Solid	08/01/24 16:30	08/08/24 08:22

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6

8

4.6

11

13

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880-47006 Chain of Custody

Chain of Custody

Chloride 300.0 × TPH 8015M (GRO + DRO + MRO) 81508 X3T8 ×

☐Level IV ☐ DI Water: H₂O Diperfund MeOH: Me HNO₃: HN NaOH: Na **Preservative Codes** NaOH+Ascorbic Acid: SAPC Sample Comments Date/Time ŏ Zn Acetate+NaOH: Zn 400 Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS RRP Other: Program: UST/PST PRP Irownfields RC Work Order Comments Cool: Cool HCL: HC H₂SO₄: H₂ H₃PO₄: HP Page_ None: NO Reporting:Level II Tevel III ST/UST ADaPT Deliverables: EDD Received by: (Signature) State of Project: ANALYSIS REQUEST Carmona Resources Date/Time # of Cont Pres. Parameters Comp Grab/ Comp Company Name: Bill to: (if different) City, State ZIP: Yes No 24 Hr. ✓ Rush Address: Water **Turn Around** Wet Ice: ☐ Routine Due Date: Soil × Corrected Temperature Temperature Reading: Correction Factor: Thermometer ID: No. Relinquished by: (Signature) 16:30 Time Yek Eddy County, New Mexico Freedom State 36 SWD GPJ & CMM 8/1/2024 Yes No N/A Date Yes No N/A Temp Blank: 310 W Wall St Ste 500 Ses No Carmona Resources Midland, TX 79701 Ashton Thielke 432-813-8988 Sample Identification SW-17 (1.5') SAMPLE RECEIPT Sample Custody Seals: Cooler Custody Seals: Project Manager: Sampler's Name: Total Containers: Company Name: Project Location Received Intact: Project Number. City, State ZIP: Project Name omments Address: PO #:

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-47006-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

Login Number: 47006 List Number: 1

Creator: Vasquez, Julisa

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

<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 375409

QUESTIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	375409
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409236022
Incident Name	NAPP2409236022 FREEDOM SATE 36 SWD @ 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	Freedom Sate 36 SWD
Date Release Discovered	03/31/2024
Surface Owner	State

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 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: Equipment Failure Pump Produced Water Released: 90 BBL Recovered: 50 BBL Lost: 40 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Cause: Equipment Failure Pump Condensate Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.	
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)	N/A	

District I

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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 375409

Ωl	JFS1	TIONS	(continued)	۱

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	375409
	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. 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	N/A	

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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: 08/20/2024
--	--

District I
1625 N. French Dr., Hobbs, NM 88240
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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, Page 3

Action 375409

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	375409
	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 26 and 50 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release 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	No	

Remediation Plan		
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.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil conta	amination 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 Cl B)	16000	
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 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.		
On what estimated date will the remediation commence 07/22/2024		
On what date will (or did) the final sampling or liner inspection occur	07/24/2024	
On what date will (or was) the remediation complete(d) 08/01/2024		
What is the estimated surface area (in square feet) that will be reclaimed	9027	
What is the estimated volume (in cubic yards) that will be reclaimed	0	
What is the estimated surface area (in square feet) that will be remediated	9027	
What is the estimated volume (in cubic yards) that will be remediated	460	
These estimated dates and measurements are recognized to be the best guess or calculation 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 adju	usted 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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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**

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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 4

Action 375409

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	375409
	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:	
Yes	
R360 ARTESIA LLC LANDFARM [fEEM0112340644]	
Not answered.	
Yes	
Once all utilities and hazards were spotted and isolated, the entire spill area was excavated and remediated at risk per NMAC 19.15.29. Clean backfill material was sourced from Fred Beard (local land owner) and was tested before being used as backfill material	

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.

Name: Adrienne Tovar
I hereby agree and sign off to the above statement
Email: adrienne.tovar@blackbuckresources.com
Date: 08/20/2024

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 375409

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	375409
	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 **District II**

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

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

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

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

QUESTIONS, Page 6

Action 375409

QUESTIONS (continued)

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	375409
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	367875
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/30/2024
What was the (estimated) number of samples that were to be gathered	65
What was the sampling surface area in square feet	10200

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	9027
What was the total volume (cubic yards) remediated	460
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Once all utilities and hazards were spotted and isolated, the entire spill area was excavated and remediated at risk per NMAC 19.15.29. Clean backfill material was sourced from Fred Beard (local land owner) and was tested before being used as backfill material.

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: 08/20/2024

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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**

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Action 375409

QUESTIONS (continued)

Operator:	OGRID:
· ·	
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	375409
	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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CONDITIONS

Action 375409

CONDITIONS

Operator:	OGRID:
Blackbuck New Mexico LLC	373619
3200 Southwest Freeway	Action Number:
Houston, TX 77027	375409
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created E	y Condition	Condition Date
rhamle	We have received your Remediation Closure Report for Incident #NAPP2409236022 FREEDOM SATE 36 SWD, thank you. This Remediation Closure Report is approved.	9/10/2024