



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

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1	OVERVIEW	FIGURE 2	TOPOGRAPHIC
FIGURE 3	SAMPLE LOCATION	FIGURE 4A-4B	EXCAVATION
FIGURE 5	BACKFILL PIT LOCATION		

APPENDICES

APPENDIX A	TABLES
APPENDIX B	PHOTOS
APPENDIX C	N.O.R. AND FINAL C-141/NMOCD CORRESPONDENCE
APPENDIX D	SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E	LABORATORY REPORTS



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.



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

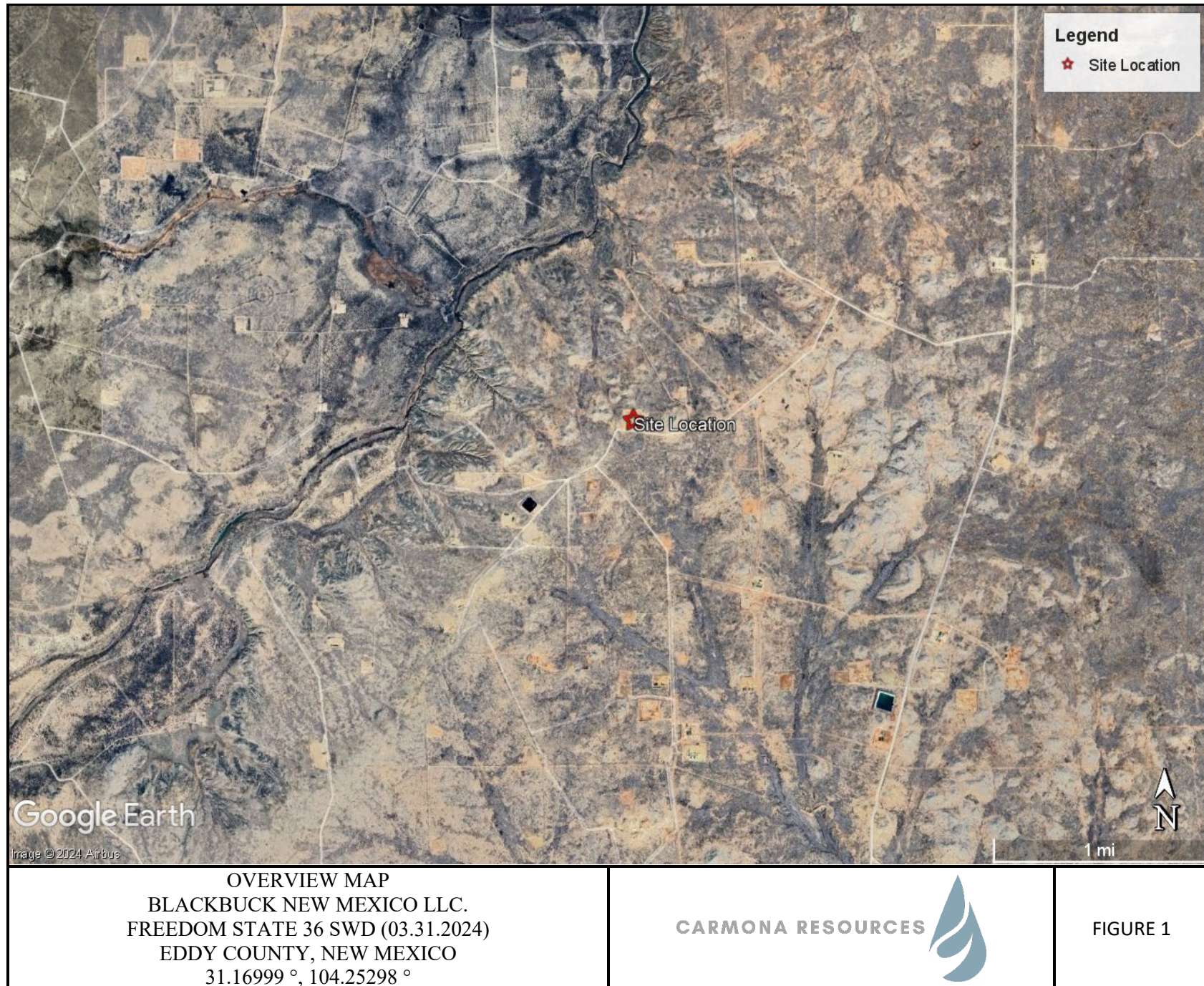
Ashton Thielke
Sr. Project Manager

Gilbert Priego
Project Manager

FIGURES

CARMONA RESOURCES





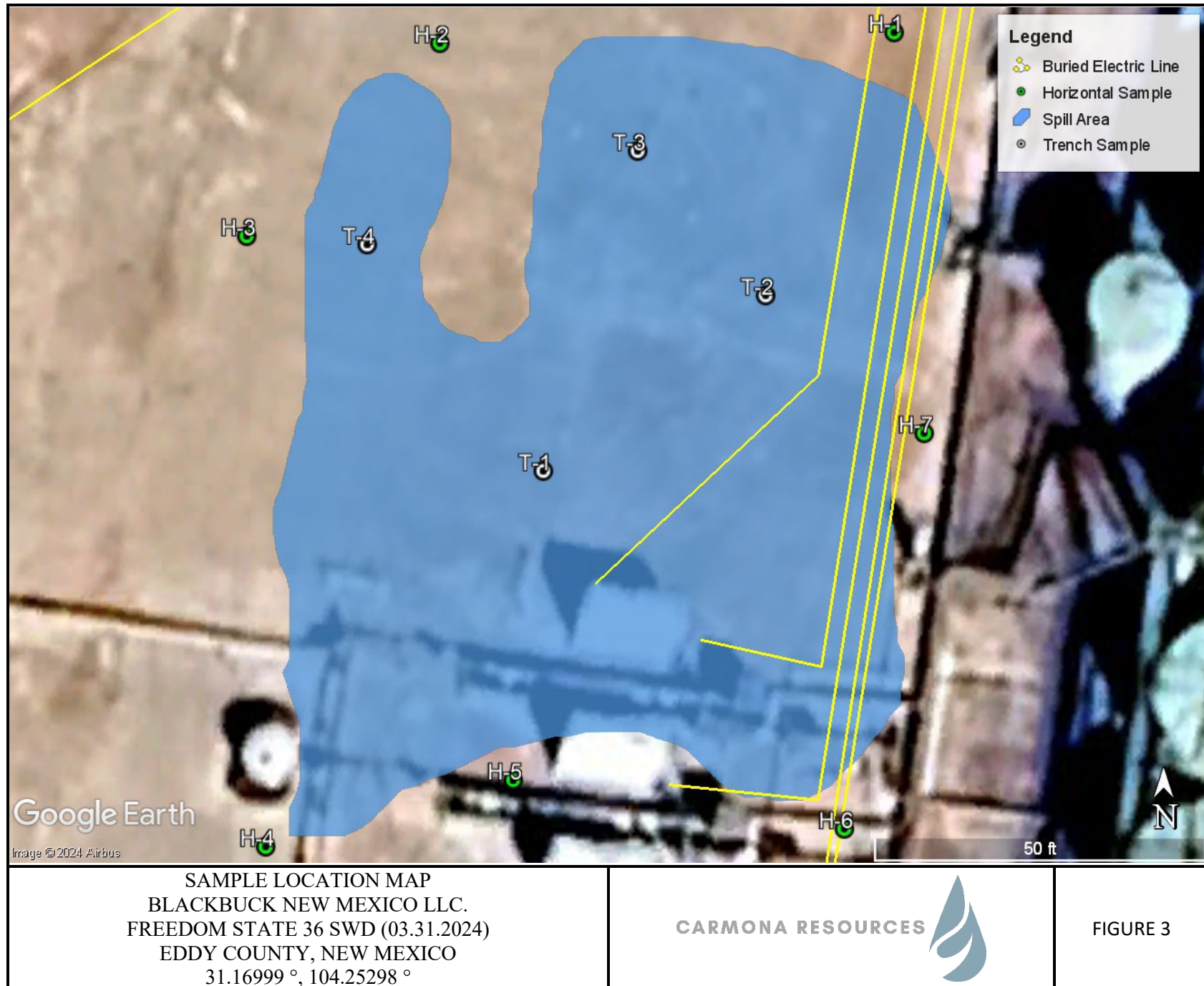


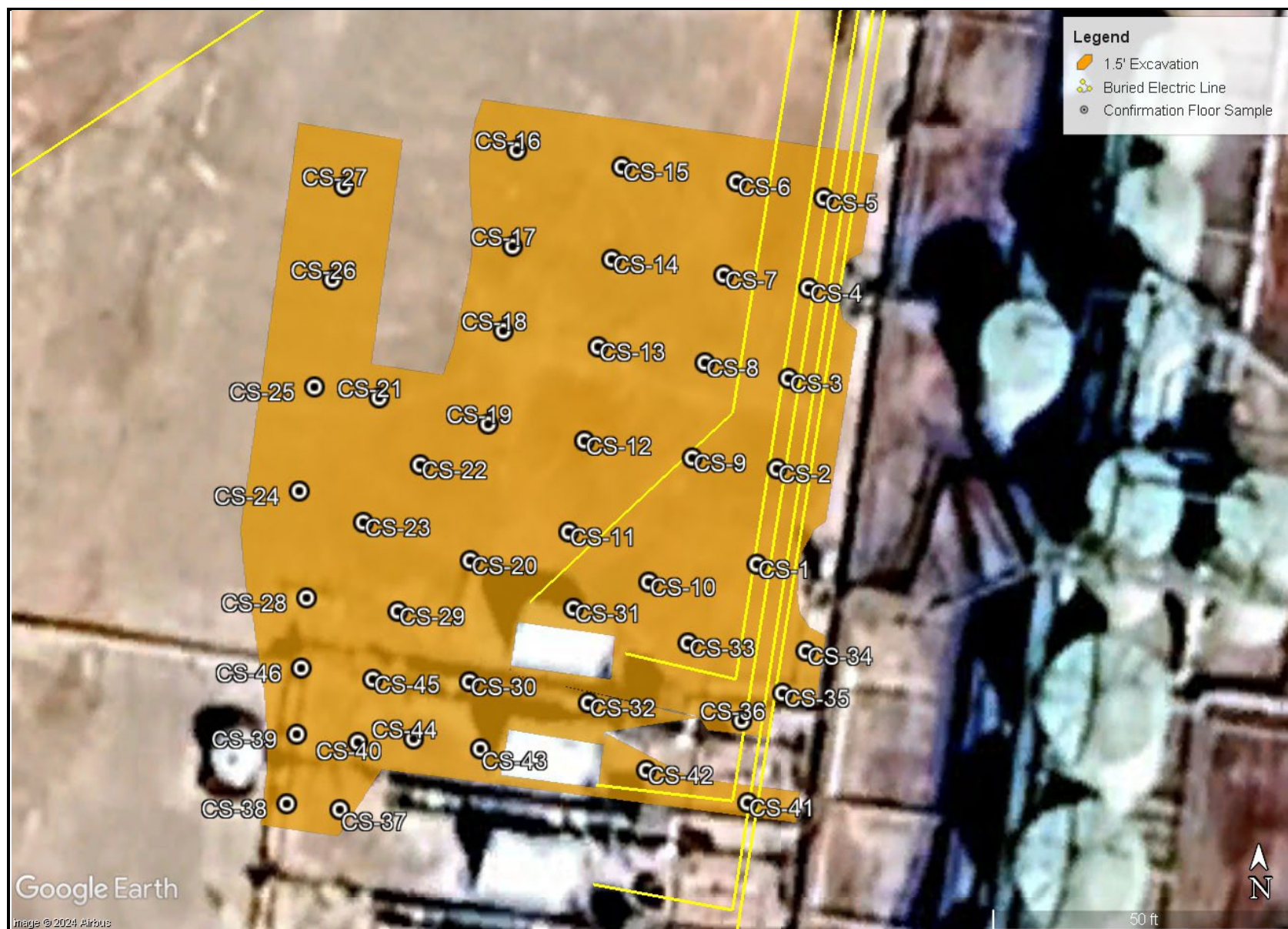
TOPOGRAPHIC MAP
 BLACKBUCK NEW MEXICO LLC.
 FREEDOM STATE 36 SWD (03.31.2024)
 EDDY COUNTY, NEW MEXICO
 31.16999 °, 104.25298 °

CARMONA RESOURCES



FIGURE 2



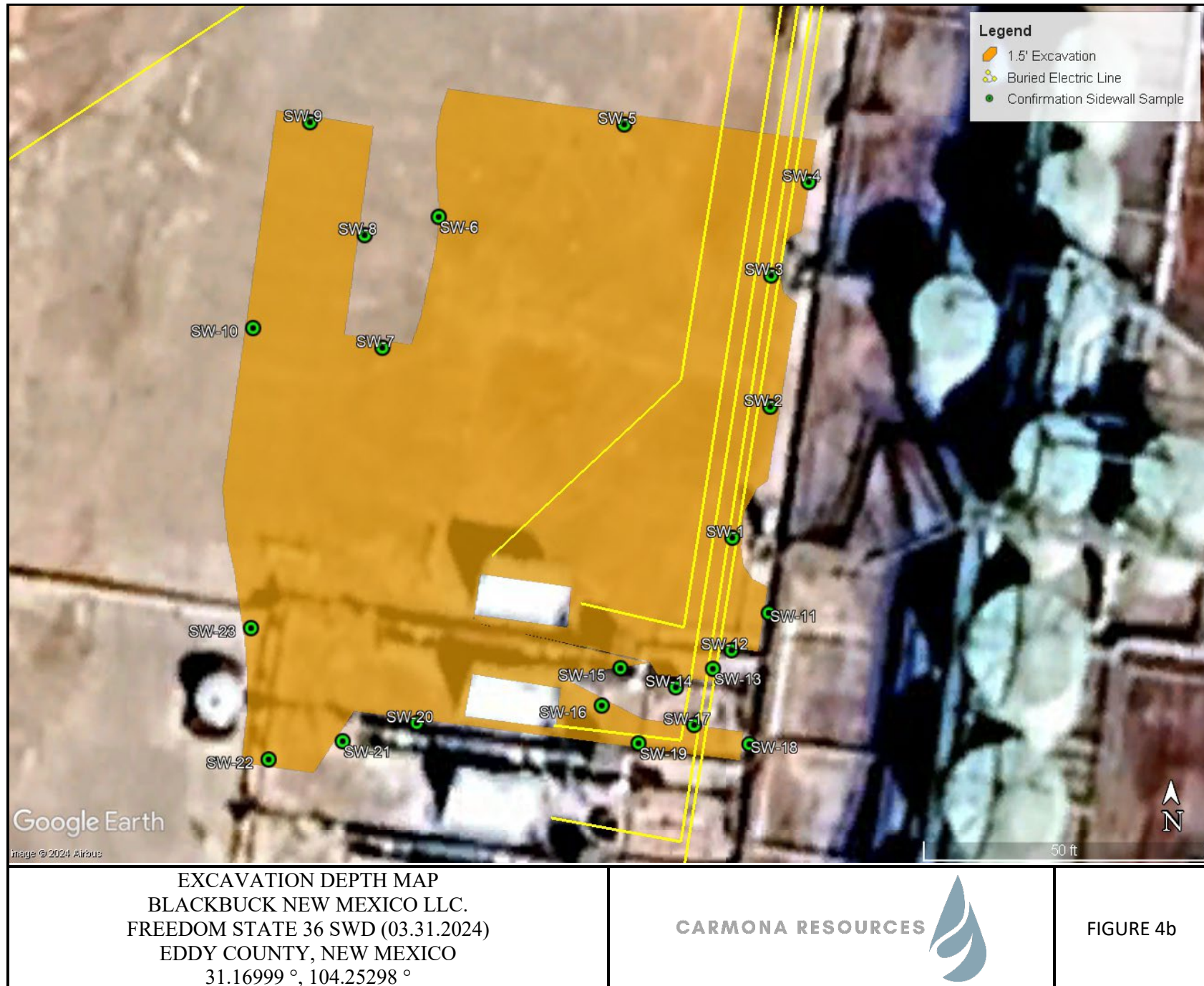


EXCAVATION DEPTH MAP
BLACKBUCK NEW MEXICO LLC.
FREEDOM STATE 36 SWD (03.31.2024)
EDDY COUNTY, NEW MEXICO
31.16999 °, 104.25298 °

CARMONA RESOURCES



FIGURE 4a





APPENDIX A

CARMONA RESOURCES



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

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
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
T-2	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
	"	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
T-3	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
	"	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
T-4	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
	"	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
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(T) Test Trench

(H) Horizontal Sample

 Removed

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

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	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
Regulatory Criteria ^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation 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 (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-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
Regulatory Criteria ^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation 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 (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
SW-1	7/24/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
	8/1/2024	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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
	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
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons
ft - feet

(SW) Confirmation Sidewall Sample

(ND) Non-Detect

Removed

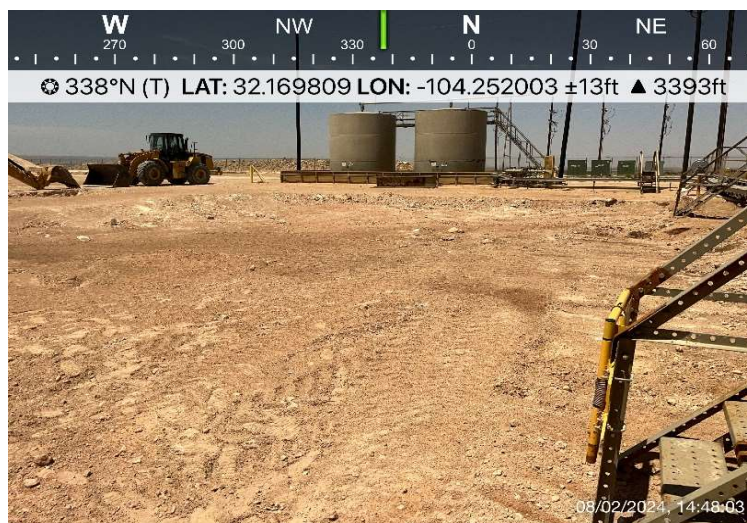
APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**Blackbuck New Mexico LLC****Photograph No. 1****Facility:** Freedom State 36 SWD**County:** Eddy County, New Mexico**Description:**

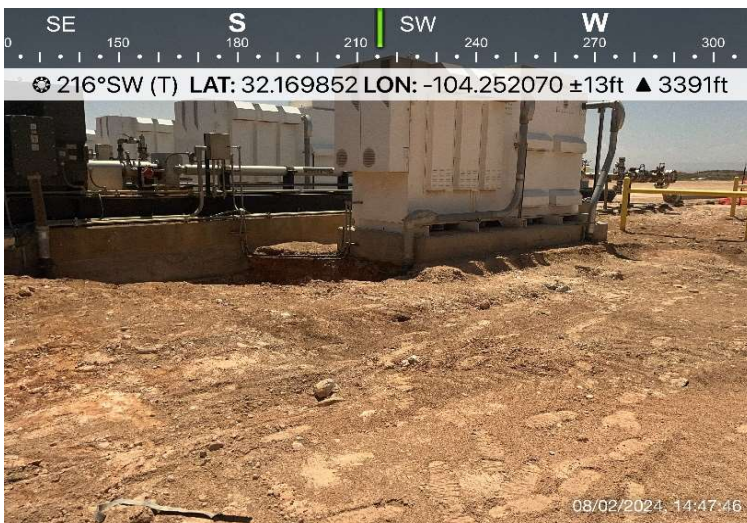
View North, area of CS-1 through CS-20.

**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.



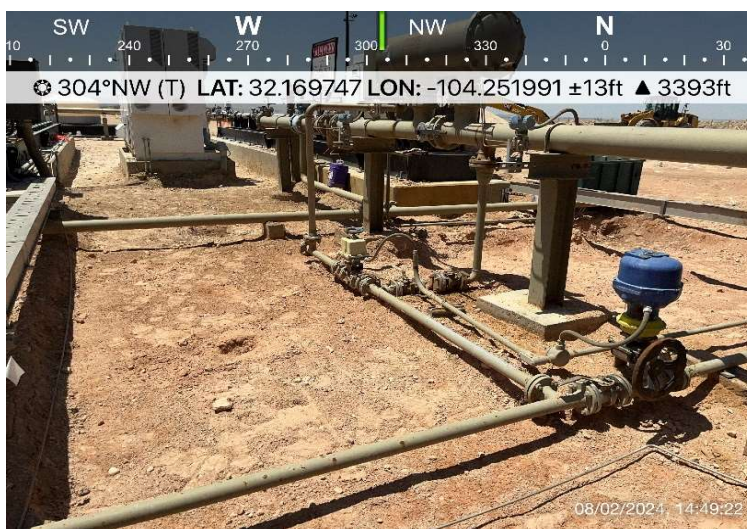
Photograph No. 5

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
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

Action 328319

QUESTIONS

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

QUESTIONS

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

Incident Details <i>Please answer all the questions in this group.</i>	
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 <i>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.</i>	
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	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

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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.
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QUESTIONS, Page 2

Action 328319

QUESTIONS (continued)

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

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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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CONDITIONS

Action 328319

CONDITIONS

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

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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QUESTIONS

Action 365178

QUESTIONS

Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID: 373619
	Action Number: 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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CONDITIONS

Action 365178

CONDITIONS

Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID: 373619
	Action Number: 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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QUESTIONS

Action 367875

QUESTIONS

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.	
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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CONDITIONS

Action 367875

CONDITIONS

Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID: 373619
	Action Number: 367875
	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.	7/29/2024

APPENDIX D

CARMONA RESOURCES

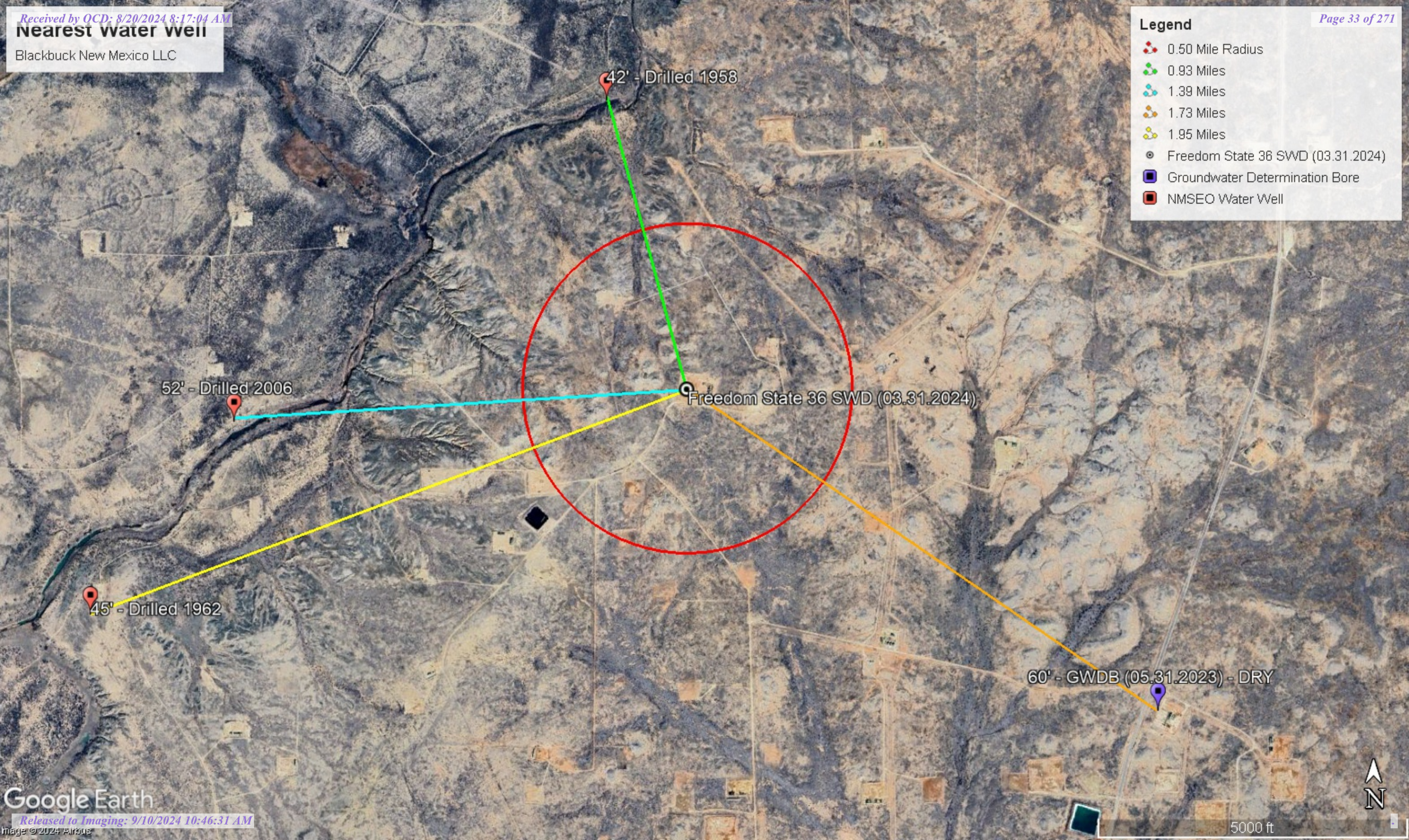


Nearest water well

Blackbuck New Mexico LLC

Legend

- 0.50 Mile Radius
- 0.93 Miles
- 1.39 Miles
- 1.73 Miles
- 1.95 Miles
- Freedom State 36 SWD (03.31.2024)
- Groundwater Determination Bore
- NMSEO Water Well



High Karst
Blackbuck New Mexico LLC

Legend

- Freedom State 36 SWD (03.31.2024)
- High
- Medium



Freedom State 36 SWD (03.31.2024)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 00819	C	ED		4	4	26	24S	26E		570022	3560935*	1470	62	42	20
C 04586 POD1	C	ED		4	1	1	35	24S	26E	568993	3560476	1724	150		
C 03200 POD1	C	ED		2	3	4	34	24S	26E	568206	3559349	2230	80	52	28
C 00262 POD2	C	ED		4	3	1	24	24S	26E	570234	3562337	2822	45	18	27
C 00792	C	ED		4	2	27	24S	26E		568397	3561747*	3013	70	30	40
C 01089	C	ED		3	4	1	03	25S	26E	567505	3558398*	3133	96	45	51
C 00690	C	ED		1	3	3	24	24S	26E	570288	3562653*	3134	30	10	20
C 03526 POD1	C	ED		1	4	4	23	24S	26E	569788	3562666	3209	200		
C 01869	R	C	ED	2	3	4	23	24S	26E	569753	3562679	3229	110	30	80
C 01869 POD2	C	ED		2	3	4	23	24S	26E	569753	3562679	3229	111	50	61
C 00883	C	ED		3	2	4	23	24S	26E	569887	3562855*	3376	60	14	46
C 03110	C	ED		4	1	4	23	24S	26E	569690	3562856*	3415	35	12	23
C 01616	C	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
C 00949	C	ED		1	1	3	24	24S	26E	570284	3563053*	3534	62	35	27
C 00829	C	ED		1	4	23	24S	26E		569591	3562957*	3535	50	19	31
C 00262	R	C	ED	4	3	1	24	24S	26E	570481	3563253*	3731	50		
C 00692	C	ED		3	3	1	24	24S	26E	570281	3563253*	3733	50	42	8
C 01085	C	ED		4	2	23	24S	26E		569990	3563356*	3859	127	60	67

Average Depth to Water: **35 feet**

Minimum Depth: **10 feet**

Maximum Depth: **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.

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Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 00819	4	4	26	24S	26E	570022	3560935*	

x

Driller License: 30

Driller Company: BARRON, EMMETT

Driller Name: EMMETT BARRON

Drill Start Date: 02/23/1958

Drill Finish Date: 02/25/1958

Plug Date:

Log File Date: 03/25/1958

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 62 feet

Depth Water: 42 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	42	62	Sandstone/Gravel/Conglomerate

*UTM location was derived from PLSS - see Help

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
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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03200 POD1	2	3	4	34	24S	26E	568206	3559349 
x									
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:		
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
x									
Water Bearing Stratifications:				Top	Bottom	Description			
				65	75	Sandstone/Gravel/Conglomerate			
x									

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

SOIL 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

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



North East Elevation

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




Water Bore

Scoter 6-31 Fed Com 7H,43H,44H Bat



New Mexico Office of the State Engineer

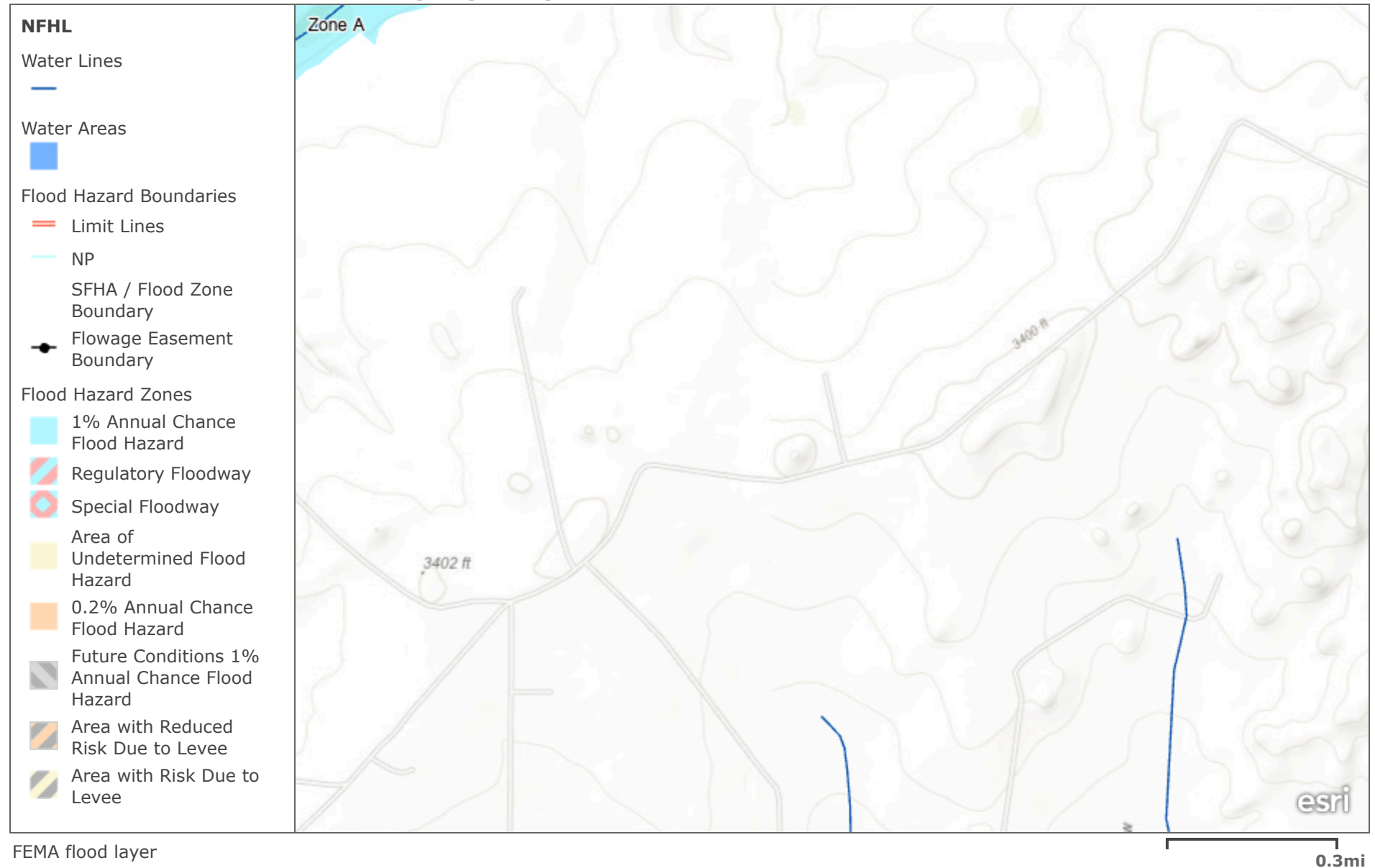
Point of Diversion Summary

		(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 01089	3	4	1	03	25S	26E	567505	3558398* 
Driller License: 46		Driller Company:		ABBOTT BROTHERS 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:				Top	Bottom				
				45	90				

*UTM location was derived from PLSS - see Help

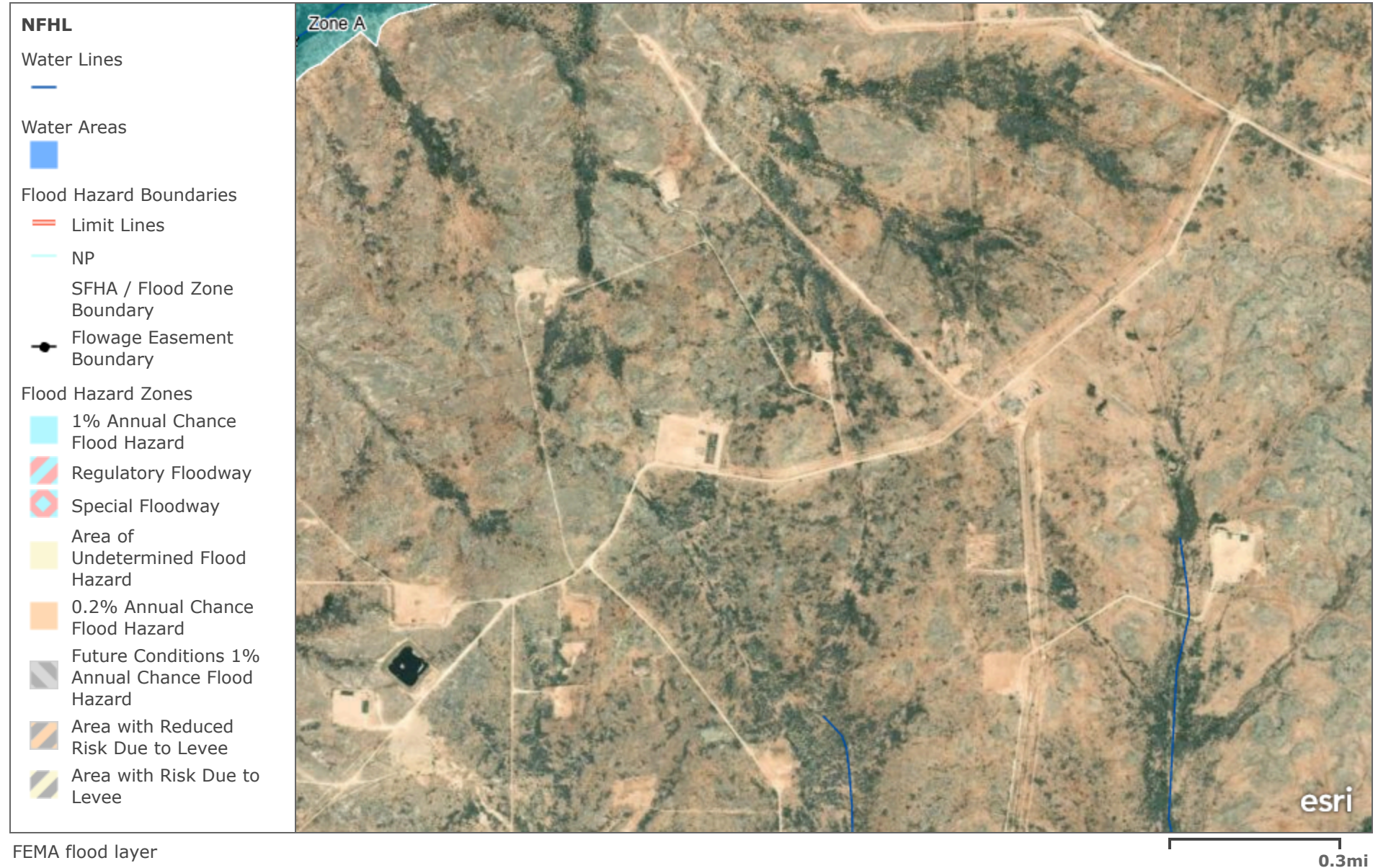
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FEMA National Flood Hazard Layer (NFHL)



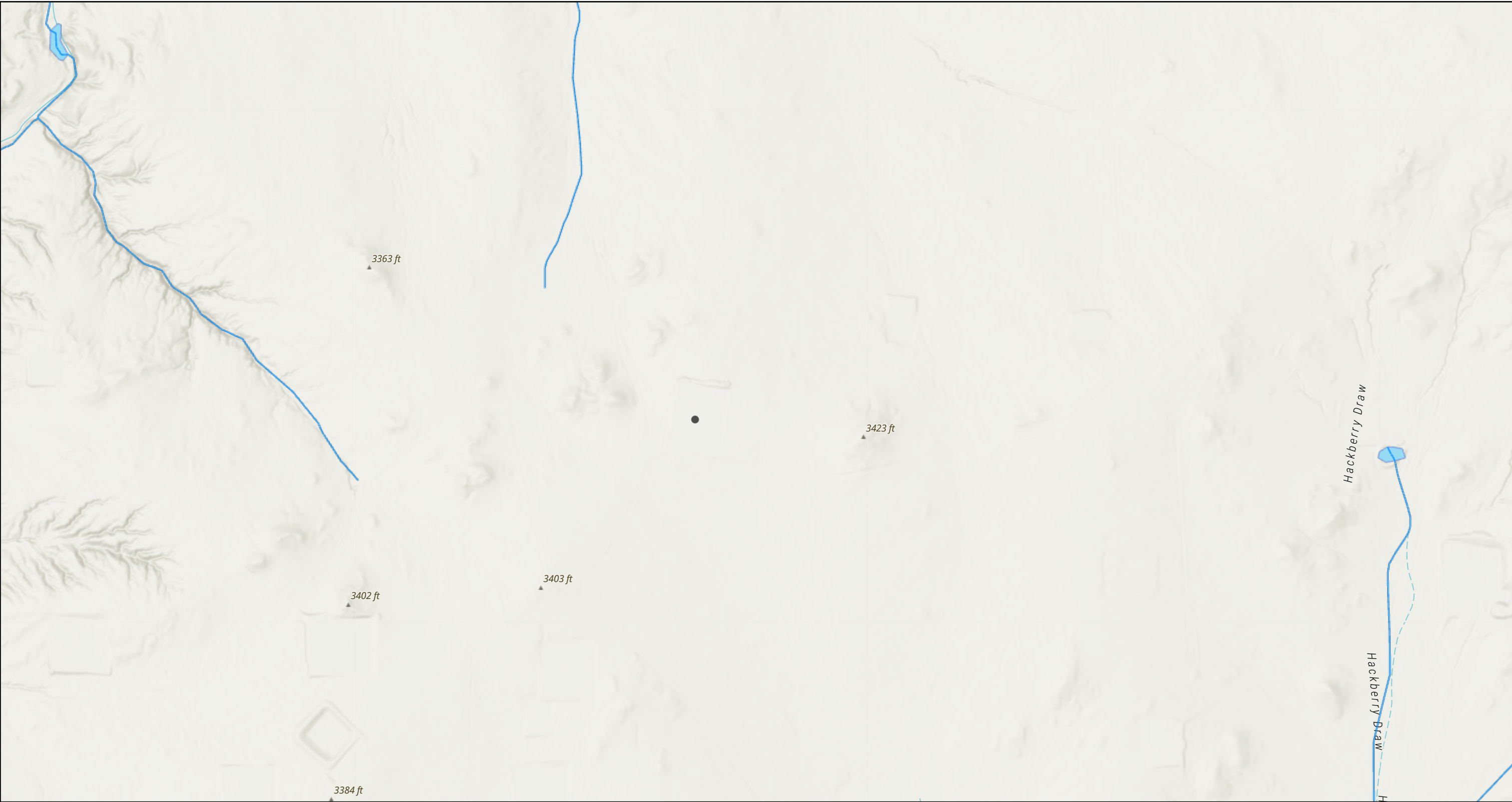
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)



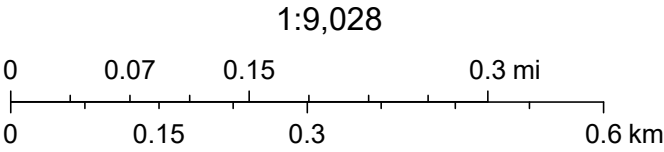
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Freedom Sate 36 SWD (03.31.2024)



4/10/2024, 9:30:09 AM

- OSW Water Bodys
- OSE Streams



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APPENDIX E

CARMONA RESOURCES





Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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

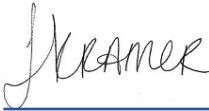
Eurofins Midland

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



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Authorized for release by
Jessica Kramer, Project Manager
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(432)704-5440

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

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	15
QC Sample Results	16
QC Association Summary	21
Lab Chronicle	24
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	33

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

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

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

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⍰	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Freedom State 36 SWD

Job ID: 880-42339-1

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), T-4 (0-1') (880-42339-12), T-4 (1.5') (880-42339-13), T-4 (2.0') (880-42339-14) and T-4 (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 T-4 (1.5') (880-42339-13). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

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

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

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

Lab Sample ID: 880-42339-1

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	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 22:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 22:42	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		04/17/24 11:00	04/17/24 22:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/24 11:00	04/17/24 22:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/24 11:00	04/17/24 22:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/24 11:00	04/17/24 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	04/17/24 11:00	04/17/24 22:42	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/17/24 11:00	04/17/24 22:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/24 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/24 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 09:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 09:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	04/17/24 10:05	04/18/24 09:57	1
o-Terphenyl	121		70 - 130	04/17/24 10:05	04/18/24 09:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7190		100		mg/Kg			04/17/24 18:00	20

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-42339-2

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	<0.00199	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
1,4-Difluorobenzene (Surr)	89		70 - 130	04/17/24 11:00	04/17/24 23:02	1

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Client Sample Results

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

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

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-42339-2

Date Collected: 04/16/24 00:00

Matrix: Solid

Date Received: 04/17/24 08:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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')

Lab Sample ID: 880-42339-4

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	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/17/24 23:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/17/24 23:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/17/24 23:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/17/24 11:00	04/17/24 23:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/17/24 23:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/17/24 11:00	04/17/24 23:22	1
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

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)

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)

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

Eurofins Midland

Client Sample Results

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

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

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

Lab Sample ID: 880-42339-4

Date Collected: 04/16/24 00:00

Matrix: Solid

Date 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

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	<0.00201	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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/17/24 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	50.0		mg/Kg			04/18/24 11:42	1

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

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

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Client Sample Results

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

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

Client Sample ID: T-2 (2.0')

Lab Sample ID: 880-42339-6

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	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/18/24 00:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/18/24 00:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/18/24 00:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/17/24 11:00	04/18/24 00:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/17/24 11:00	04/18/24 00:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/17/24 11:00	04/18/24 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	04/17/24 11:00	04/18/24 00:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/17/24 11:00	04/18/24 00:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/18/24 00:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/24 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/24 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 Chromatography - 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')

Lab Sample ID: 880-42339-8

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 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

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Client Sample Results

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

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

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

Lab Sample ID: 880-42339-8

Date Collected: 04/16/24 00:00

Matrix: Solid

Date Received: 04/17/24 08:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/18/24 00:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/24 12:24	1

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

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		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
1,4-Difluorobenzene (Surr)	93		70 - 130				04/17/24 11:00	04/18/24 00:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/18/24 00:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/24 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 12:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 12:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
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

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 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	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.1		4.98		mg/Kg			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 ID: 880-42339-10
Matrix: Solid

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 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 - Total BTEX Calculation									
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 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 13:07	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 13:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 13:07	1
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 Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.3		5.04		mg/Kg			04/17/24 19:10	1

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Client Sample Results

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

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

Client Sample ID: T4 (0-1')

Lab Sample ID: 880-42339-12

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	<0.00199	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 - Total BTEX Calculation

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

Method: SW846 8015 NM - Diesel Range Organics (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 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 13:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 13:28	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	04/17/24 10:05	04/18/24 13:28	1
o-Terphenyl	115		70 - 130	04/17/24 10:05	04/18/24 13:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		25.2		mg/Kg			04/17/24 19:16	5

Client Sample ID: T4 (1.5')

Lab Sample ID: 880-42339-13

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	<0.00201	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

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Client Sample Results

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

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

Client Sample ID: T4 (1.5')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-13
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/18/24 01:45	1	
Method: SW846 8015 NM - Diesel Range Organics (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 - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 13:49	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 13:49	1	
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 Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	13.7		4.98		mg/Kg			04/17/24 19:22	1	

Client Sample ID: T4 (2.0')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-14
Matrix: Solid

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 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
1,4-Difluorobenzene (Surr)	95		70 - 130				04/17/24 11:00	04/18/24 03:08	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/18/24 03:08	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/24 14:47	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/24 10:05	04/18/24 14:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/24 10:05	04/18/24 14:47	1

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Client Sample Results

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

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

Client Sample ID: T4 (2.0')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-14
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		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 Chromatography - 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

Surrogate Summary

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

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

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-42339-1	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			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-42339-1	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
LCS 880-78460/2-A	Lab Control Sample	100	106
LCSD 880-78460/3-A	Lab Control Sample Dup	104	110
MB 880-78460/1-A	Method Blank	154 S1+	137 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

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

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-78383/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 78438							Prep Batch: 78383		
Analyte	MB Result	MB 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	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/24 11:46	04/17/24 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/24 11:46	04/17/24 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/24 11:46	04/17/24 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/24 11:46	04/17/24 11:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				04/16/24 11:46	04/17/24 11:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/16/24 11:46	04/17/24 11:40	1

Lab Sample ID: MB 880-78474/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 78438							Prep Batch: 78474		
Analyte	MB Result	MB 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
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				04/17/24 11:00	04/17/24 22:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/17/24 11:00	04/17/24 22:20	1

Lab Sample ID: LCS 880-78474/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 78438							Prep Batch: 78474		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	118		70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						

Lab Sample ID: LCSD 880-78474/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 78438							Prep Batch: 78474		
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene		0.100	0.08307		mg/Kg		83	70 - 130	7 35

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QC Sample Results

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

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

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

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

Matrix: Solid

Analysis Batch: 78438

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 78474

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier	Limit				Limits		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							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	113		70 - 130							
1,4-Difluorobenzene (Surr)	104		70 - 130							

Lab Sample ID: 880-42339-1 MS

Matrix: Solid

Analysis Batch: 78438

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

Prep Type: Total/NA

Prep Batch: 78474

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				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									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130								
1,4-Difluorobenzene (Surr)	108		70 - 130								

Lab Sample ID: 880-42339-1 MSD

Matrix: Solid

Analysis Batch: 78438

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

Prep Type: Total/NA

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
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	119		70 - 130								
1,4-Difluorobenzene (Surr)	108		70 - 130								

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 07:31	1

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QC Sample Results

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: MB 880-78460/1-A
Matrix: Solid
Analysis Batch: 78551

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

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

Surrogate	MB %Recovery	MB 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

Lab Sample ID: LCS 880-78460/2-A
Matrix: Solid
Analysis Batch: 78551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78460

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

Surrogate	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	888.0		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1065		mg/Kg		105	70 - 130

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

QC Sample Results

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

Matrix: Solid

Analysis Batch: 78551

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

Prep Type: Total/NA

Prep Batch: 78460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	859.7		mg/Kg		83	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1051		mg/Kg		103	70 - 130	1	20
Surrogate	MSD %Recovery	MSD 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

Matrix: Solid

Analysis Batch: 78491

Client Sample ID: Method Blank

Prep Type: Soluble

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

Lab Sample ID: LCS 880-78454/2-A

Matrix: Solid

Analysis Batch: 78491

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-78454/3-A

Matrix: Solid

Analysis Batch: 78491

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 880-42339-1 MS

Matrix: Solid

Analysis Batch: 78491

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

Prep Type: Soluble

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

Lab Sample ID: 880-42339-1 MSD

Matrix: Solid

Analysis Batch: 78491

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

Prep Type: Soluble

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

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QC Sample Results

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

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

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													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	RPD Limit	
Chloride	5.78		249	243.6		mg/Kg		96	90 - 110		1	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 Batch
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 Batch
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	

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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

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: T-1 (0-1')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/17/24 23:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78680	04/17/24 23:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			78758	04/18/24 10:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 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 10:59	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		1	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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			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

Client Sample ID: T-2 (2.0')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	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
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	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	Prep	8015NM Prep			10.04 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 12:46	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	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

Matrix: Solid

Date Received: 04/17/24 08:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	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 (0-1')

Lab Sample ID: 880-42339-12

Date Collected: 04/16/24 00:00

Matrix: Solid

Date Received: 04/17/24 08:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	78474	04/17/24 11:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78438	04/18/24 01:25	MNR	EET MID
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	8015B NM		1	1 uL	1 uL	78551	04/18/24 13:28	SM	EET MID
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

Matrix: Solid

Date Received: 04/17/24 08:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: T4 (2.0')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42339-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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
Project/Site: Freedom State 36 SWD

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

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

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

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- 5
- 6
- 7
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- 11
- 12
- 13
- 14

Chain of Custody



880-42339 Chain of Custody

Page 1 of 2

Project Manager: Ashton Thielke		Bill to (if different): Carmona Resources	
Company Name: Carmona Resources		Company Name:	
Address: 310 W Wall St Ste 500		Address:	
City, State Zip: Midland, TX 79701		City, State Zip:	
Phone: 432-813-8988		Email:	

Project Name: Freedom State 36 SWD		Turn Around	
Project Number: 2334		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	
Project Location: Eddy County, New Mexico		Due Date: 72 hr	
Sampler's Name: GPJ & AT			
PO #:			

SAMPLE RECEIPT				ANALYSIS REQUEST				Preservative Codes	
Received Intact:	Therm Blank:	Yes	No	Thermometer ID:	Yes	No	Wet Ice:	Yes	No
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:	Yes	No	Temperature Reading:	Corrected Temperature:	
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:	Corrected Temperature:				
Total Containers:									
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST
T-1 (0-1')	4 16 2024		X		G	1	TPH 8015M (GRO + DRO + MRO)		Hold
T-1 (1 5')	4 16 2024		X		G	1	Chloride 300 0		
T-1 (2 0')	4 16 2024		X		G	1			
T-2 (0-1')	4 16 2024		X		G	1			
T-2 (1 5')	4 16 2024		X		G	1			
T-2 (2 0')	4 16 2024		X		G	1			
T-2 (3 0')	4 16 2024		X		G	1			
T-3 (0-1')	4 16 2024		X		G	1			
T-3 (1 5')	4 16 2024		X		G	1			

Comments:	
-----------	--

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>		<i>[Signature]</i>	4/17/24 8:54

4/19/2024

Work Order No: Loc: 880 42339 1

4/19/2024

Login Sample Receipt Checklist

Client: Carmona Resources

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

Login Number: 42339
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

1

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4

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8

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14

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



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4/19/2024 2:33:39 PM

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

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

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

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

Job ID: 880-42342-1
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

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⬤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Freedom State 36 SWD

Job ID: 880-42342-1

Job ID: 880-42342-1

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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 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: 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.

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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-1 (0-1')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		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

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/24 21:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/24 15:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 15:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				04/17/24 10:05	04/18/24 15:08	1
o-Terphenyl	132	S1+	70 - 130				04/17/24 10:05	04/18/24 15:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.7		5.02		mg/Kg			04/18/24 19:39	1

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

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/17/24 21:54	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			04/18/24 15:29	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 15:29	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 15:29	1	
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 Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	119		5.01		mg/Kg			04/18/24 19:44	1	

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

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)	119		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 Calculation										
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 - Diesel Range Organics (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	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/17/24 10:05	04/18/24 15:51	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/17/24 10:05	04/18/24 15:51	1	

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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-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

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.1	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 Chromatography - Soluble										
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 - Volatile Organic Compounds (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	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/24 22:35	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			04/18/24 16:12	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 16:12	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 16:12	1	
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	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	65.5		4.98		mg/Kg			04/18/24 19:53	1	

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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-5 (0-1')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-5
Matrix: Solid

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 22:56	1
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	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/24 10:44	04/17/24 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				04/17/24 10:44	04/17/24 22:56	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/17/24 10:44	04/17/24 22:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/17/24 22:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/18/24 16:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 16:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 16:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/24 10:05	04/18/24 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/17/24 10:05	04/18/24 16:33	1
o-Terphenyl	110		70 - 130				04/17/24 10:05	04/18/24 16:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	452		5.02		mg/Kg			04/18/24 20:08	1

Client Sample ID: H-6 (0-1')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		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

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-6 (0-1')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/24 23:16	1	
Method: SW846 8015 NM - Diesel Range Organics (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 16:55	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 16:55	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 16:55	1	
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-Terphenyl	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	
Chloride	61.0		4.99		mg/Kg			04/18/24 20:13	1	

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

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		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)	119		70 - 130				04/17/24 10:44	04/17/24 23:36	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/24 23:36	1	
Method: SW846 8015 NM - Diesel Range Organics (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 17:16	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 17:16	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/17/24 10:05	04/18/24 17:16	1	

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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

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)	<49.7	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 Chromatography - 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
Project/Site: Freedom State 36 SWD

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

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-41774-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
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

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

QC Sample Results

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

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							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 78470							Prep Batch: 78471		
Analyte	MB Result	MB 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
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130				04/17/24 10:44	04/17/24 20:24	1
1,4-Difluorobenzene (Surr)	123		70 - 130				04/17/24 10:44	04/17/24 20:24	1

Lab Sample ID: MB 880-78471/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 78470							Prep Batch: 78471		
Analyte	MB Result	MB 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
Surrogate	MB %Recovery	MB 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							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 78470							Prep Batch: 78471		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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		
m-Xylene & p-Xylene	0.200	0.2292		mg/Kg		115	70 - 130		
o-Xylene	0.100	0.09997		mg/Kg		100	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: LCSD 880-78471/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 78470							Prep Batch: 78471		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	5	35

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QC Sample Results

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

Job ID: 880-42342-1
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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier			Limits	Limits		
Toluene	0.100	0.1007		mg/Kg		101	70 - 130	8	35
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2362		mg/Kg		118	70 - 130	3	35
o-Xylene	0.100	0.1036		mg/Kg		104	70 - 130	4	35
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
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

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

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
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	
MSD		MSD										
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

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/24 10:05	04/18/24 07:31	1

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QC Sample Results

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

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
Matrix: Solid
Analysis Batch: 78551

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

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

Surrogate	MB %Recovery	MB 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

Lab Sample ID: LCS 880-78460/2-A
Matrix: Solid
Analysis Batch: 78551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78460

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

Surrogate	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	888.0		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1065		mg/Kg		105	70 - 130

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

QC Sample Results

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

Job ID: 880-42342-1
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

Prep Type: Total/NA

Prep Batch: 78460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	859.7		mg/Kg		83	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1051		mg/Kg		103	70 - 130	1	20
Surrogate	MSD %Recovery	MSD 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

Matrix: Solid

Analysis Batch: 78650

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/18/24 18:07	1

Lab Sample ID: LCS 880-78588/2-A

Matrix: Solid

Analysis Batch: 78650

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

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

Matrix: Solid

Analysis Batch: 78650

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 880-42342-4 MS

Matrix: Solid

Analysis Batch: 78650

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

Prep Type: Soluble

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

Lab Sample ID: 880-42342-4 MSD

Matrix: Solid

Analysis Batch: 78650

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	65.5		249	312.6		mg/Kg		99	90 - 110	0	20

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QC Association Summary

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

Job ID: 880-42342-1
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	

Eurofins Midland

QC Association Summary

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

Job ID: 880-42342-1
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 Batch
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

Eurofins Midland

QC Association Summary

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

Job ID: 880-42342-1
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

Lab Chronicle

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

Lab Sample ID: 880-42342-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	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
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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

Lab Chronicle

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			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

Client Sample ID: H-5 (0-1')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 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')
Date Collected: 04/16/24 00:00
Date Received: 04/17/24 08:54

Lab Sample ID: 880-42342-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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	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 17:16	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 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

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Accreditation/Certification Summary

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

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

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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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- 3
- 4
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- 6
- 7
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- 9
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- 11
- 12
- 13
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7 posts



880-42342 Chain of Custody

Page 1 of 1

Project Manager:	Ashton Thielke		Bill to: (if different)	Carmona Resources
Company Name	Carmona Resources		Company Name	
Address:	310 W Wall St Ste 500		Address:	
City, State ZIP	Midland, TX 79701		City, State ZIP:	
Phone:	432-813-8988		Phone:	
			Email	

Work Order Comments			
Program	UST/ST	PRP	rowfields
Reporting Level II	Level III	ST/UST	RRP
Deliverables	EDD	ADaPT	Other
			perfund
			Level IV

[illegible]

Comments:

	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Comments:	[Handwritten Signature]		[Handwritten Signature]	4/17/24 SSA

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- 14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-42342-1

SDG Number: Eddy County, New Mwxico

Login Number: 42342

List Number: 1

List Source: Eurofins Midland

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	

Report to:

Ashton Thielke



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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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 regarding 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
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Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
Backfill Sample	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

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	07/30/24 15:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Backfill Sample	E407212-01A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:33:48PM
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Backfill Sample
E407212-01

Analyte	Result	Reporting Limit	Dilution	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	
Surrogate: n-Nonane		125 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2430133	
Chloride	120	20.0	1	07/26/24	07/26/24	



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

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2430132-BLK1)

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

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	0.517		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: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			



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

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2430132-BLK1) Prepared: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.0	70-130			
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: E407214-01 Prepared: 07/26/24 Analyzed: 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: E407214-01 Prepared: 07/26/24 Analyzed: 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 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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430123-BLK1)					Prepared: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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: E407211-02		Prepared: 07/26/24 Analyzed: 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: E407211-02		Prepared: 07/26/24 Analyzed: 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			



QC Summary Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:33:48PM
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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
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Blank (2430133-BLK1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	ND	20.0							
LCS (2430133-BS1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2430133-MS1)					Source: E407210-05		Prepared: 07/26/24 Analyzed: 07/26/24		
Chloride	292	200	250	ND	117	80-120			
Matrix Spike Dup (2430133-MSD1)					Source: E407210-05		Prepared: 07/26/24 Analyzed: 07/26/24		
Chloride	297	200	250	ND	119	80-120	1.70	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 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	07/30/24 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.



Page 1 of 1

Work Order Comments					
Program:	UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RC	<input type="checkbox"/> Superfund
State of Project:					
Reporting:	Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV
Deliverables:	EDD	<input type="checkbox"/>	ADaPT	<input type="checkbox"/>	Other:

Comments:

Page 11 of 12

Envirotech Analytical Laboratory

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

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: E407212

Phone: (432) 813-6823

Date Logged In: 07/25/24 16:04

Logged In By: Noe Soto

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 match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

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, i.e., 6°±2°C Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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 containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashton Thielke



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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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 regarding 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,

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-1 (1.5')	6
CS-2 (1.5')	7
CS-3 (1.5')	8
CS-4 (1.5')	9
CS-5 (1.5')	10
CS-6 (1.5')	11
CS-7 (1.5')	12
CS-8 (1.5')	13
CS-9 (1.5')	14
CS-10 (1.5')	15
CS-11 (1.5')	16
CS-12 (1.5')	17
CS-13 (1.5')	18
CS-14 (1.5')	19
CS-15 (1.5')	20
CS-16 (1.5')	21
CS-17 (1.5')	22
CS-18 (1.5')	23
CS-19 (1.5')	24
CS-20 (1.5')	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

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

Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-1 (1.5')
E407213-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	94.2 %	70-130		07/26/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2430130	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/26/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	222	200	10	07/26/24	07/26/24	

Sample Data

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

CS-2 (1.5')
E407213-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	439	20.0	1	07/26/24	07/26/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
7/30/2024 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		Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430136
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-4 (1.5')
E407213-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-5 (1.5')
E407213-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2430130	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-6 (1.5')
E407213-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2430130	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-7 (1.5')
E407213-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-8 (1.5')
E407213-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	218	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-9 (1.5')
E407213-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
7/30/2024 1:28:53PM

CS-10 (1.5')

E407213-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2430130	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
7/30/2024 1:28:53PM

CS-11 (1.5')

E407213-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430130
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430136
Chloride	502	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-12 (1.5')
E407213-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	492	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-13 (1.5')
E407213-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2430130	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-14 (1.5')
E407213-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-15 (1.5')
E407213-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	94.9 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	201	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-16 (1.5')
E407213-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	335	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-17 (1.5')
E407213-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	386	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-18 (1.5')
E407213-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 1:28:53PM
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CS-19 (1.5')
E407213-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	95.6 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: WF		Batch: 2430136	
Chloride	446	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
7/30/2024 1:28:53PM

CS-20 (1.5')

E407213-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2430130	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2430136	
Chloride	ND	200	10	07/26/24	07/26/24	



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 1:28:53PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430130-BLK1) Prepared: 07/26/24 Analyzed: 07/26/24

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: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			

LCS (2430130-BS1) Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	4.86	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.56	0.0250	5.00		91.2	70-130			
Toluene	4.79	0.0250	5.00		95.7	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.40	0.0500	10.0		94.0	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

Matrix Spike (2430130-MS1) Source: E407213-07 Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	5.21	0.0250	5.00	ND	104	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133			
Toluene	5.13	0.0250	5.00	ND	103	61-130			
o-Xylene	4.99	0.0250	5.00	ND	99.8	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2430130-MSD1) Source: E407213-07 Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	5.29	0.0250	5.00	ND	106	54-133	1.58	20	
Ethylbenzene	4.95	0.0250	5.00	ND	99.0	61-133	1.45	20	
Toluene	5.21	0.0250	5.00	ND	104	61-130	1.47	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	1.58	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	1.40	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	1.46	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.2	70-130			



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 1:28:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430130-BLK1) Prepared: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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 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 1:28:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430122-BLK1)					Prepared: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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	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 1:28:53PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2430136-BLK1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	ND	20.0							
LCS (2430136-BS1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2430136-MS1)					Source: E407213-07		Prepared: 07/26/24 Analyzed: 07/26/24		
Chloride	420	200	250	ND	168	80-120			M6
Matrix Spike Dup (2430136-MSD1)					Source: E407213-07		Prepared: 07/26/24 Analyzed: 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 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	07/30/24 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.



Chain of Custody

Work Order No: 407213
Job # 24036-0001Page 1 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	(432) 813-8988	Email:	thielke@carmonaresources.com

Work Order Comments			
Program: UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> rownfields	<input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:			
Reporting: Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/>	ADaPT	<input type="checkbox"/> Other:

Project Name:		Freedom State 36 SWD		Turn Around		ANALYSIS REQUEST										Preservative Codes									
Project Number:		2334		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush												None: NO DI Water: H ₂ O									
Project Location:		Edley County, New Mexico		Due Date:		72 hr												Cool: Cool MeOH: Me							
Sampler's Name:		COP														HCL: HC HNO ₃ : HN									
PO #:																H ₂ SO ₄ : H ₂ NaOH: Na									
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No		Wet Ice:		<input checked="" type="checkbox"/> Yes No												H ₃ PO ₄ : HP					
Received Intact:		Yes <input checked="" type="checkbox"/> No		Thermometer ID:														NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No N/A		Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No N/A		Temperature Reading:		4												Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:														NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont												Sample Comments	
CS-1 (1.5')		7/24/25				X				Comp		1		X X X										Lab # 1	
CS-2 (1.5')												1												2	
CS-3 (1.5')												1												3	
CS-4 (1.5')												1												4	
CS-5 (1.5')												1												5	
CS-6 (1.5')												1												6	
CS-7 (1.5')												1												7	
CS-8 (1.5')												1												8	
CS-9 (1.5')												1												9	
CS-10 (1.5')												1												10	

Comments:

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
Michelle Gonzales		7/25/24 9:15		Michelle Gonzales		7-25-24 0915	
Andrew HBS		7-25-24 1550		Andrew HBS		7-25-24 1845	
		Page 31 of 33		Hypert R Hall		7-26-24 0500	

Chain of Custody

Work Order No: E407213
Job # 24036-0001Page 2 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	See pg 1
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	(432) 813-8988	Email:	

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	See pg. 1	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush														None: NO	DI Water: H ₂ O			
Project Location:		Due Date:	72 hr.														Cool: Cool	MeOH: Me			
Sampler's Name:																	HCL: HC	HNO ₃ : HN			
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No	Wet Ice:	Yes <input checked="" type="checkbox"/> No	Parameters BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300.0														H ₃ PO ₄ : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No	Thermometer ID:														NaHSO ₄ : NABIS					
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No N/A	Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No N/A	Temperature Reading:	4													Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:														NaOH+Ascorbic Acid: SAPC					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments				
CS-11 (1.5")	7/24/24		X		Comp	1	X	X	X								Lab # 11				
CS-12 (1.5")																	12				
CS-13 (1.5")																	13				
CS-14 (1.5")																	14				
CS-15 (1.5")																	15				
CS-16 (1.5")																	16				
CS-17 (1.5")																	17				
CS-18 (1.5")																	18				
CS-19 (1.5")																	19				
CS-20 (1.5")																	20				

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7/25/24 9:15		7-25-24 0915
	7-25-24 1550		7-25-24 1845
	7-25-24 1550		7-26-24 0822

Envirotech Analytical Laboratory

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

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:	E407213
Phone:	(432) 813-6823	Date Logged In:	07/25/24 16:15	Logged In By:	Raina Schwanz
Email:	cmochring@carmonaresources.com	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 match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project: Freedom State 36 SWD split up between workorders E407213 & E407216. Time sampled not listed on COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

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, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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 containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - 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
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

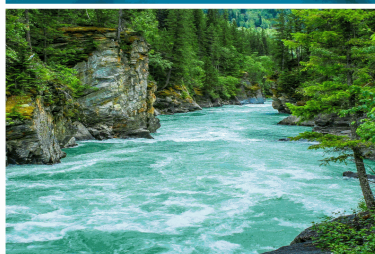
Date



envirotech Inc.

Report to:

Ashton Thielke



envirotech

Practical Solutions for a Better Tomorrow

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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 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 regarding 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-21 (1.5')	6
CS-22 (1.5')	7
CS-23 (1.5')	8
CS-24 (1.5')	9
CS-25 (1.5')	10
CS-26 (1.5')	11
CS-27 (1.5')	12
SW-1 (1.5')	13
SW-2 (1.5')	14
SW-3 (1.5')	15
SW-4 (1.5')	16
SW-5 (1.5')	17
SW-6 (1.5')	18
SW-7 (1.5')	19
SW-8 (1.5')	20
SW-9 (1.5')	21
SW-10 (1.5')	22
QC Summary Data	23
QC - Volatile Organics by EPA 8021B	23
QC - Nonhalogenated Organics by EPA 8015D - GRO	24

Table of Contents (continued)

QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	25
QC - Anions by EPA 300.0/9056A	26
Definitions and Notes	27
Chain of Custody etc.	28

Sample Summary

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



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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CS-21 (1.5')
E407216-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: DT		Batch: 2430138	
Chloride	370	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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CS-22 (1.5')
E407216-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	111 %	50-200		07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

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

CS-23 (1.5')
E407216-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		07/26/24	07/29/24	
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	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		07/26/24	07/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

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

CS-24 (1.5')
E407216-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: DT		Batch: 2430138	
Chloride	431	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
7/30/2024 3:29:17PM

CS-25 (1.5')

E407216-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		07/26/24	07/29/24	
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	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	96.9 %	50-200		07/26/24	07/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430138
Chloride	266	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 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	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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CS-27 (1.5')
E407216-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: DT		Batch: 2430138	
Chloride	262	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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SW-1 (1.5')
E407216-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
7/30/2024 3:29:17PM

SW-2 (1.5')

E407216-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		07/26/24	07/29/24	
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	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		07/26/24	07/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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SW-3 (1.5')
E407216-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	97.3 %	70-130		07/26/24	07/29/24	
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	07/29/24	
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	Analyst: 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	Analyst: DT		Batch: 2430138	
Chloride	411	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
7/30/2024 3:29:17PM

SW-4 (1.5')

E407216-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		07/26/24	07/29/24	
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	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/26/24	07/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2430138	
Chloride	462	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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SW-5 (1.5')
E407216-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	97.5 %	70-130		07/26/24	07/29/24	
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	07/29/24	
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	Analyst: 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	Analyst: DT		Batch: 2430138	
Chloride	600	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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SW-6 (1.5')
E407216-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		07/26/24	07/29/24	
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	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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SW-7 (1.5')
E407216-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	98.0 %	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	94.3 %	70-130		07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: 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	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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SW-8 (1.5')
E407216-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
7/30/2024 3:29:17PM

SW-9 (1.5')

E407216-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2430138	
Chloride	233	200	10	07/26/24	07/26/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 7/30/2024 3:29:17PM
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SW-10 (1.5')
E407216-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		07/26/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2430138	
Chloride	ND	200	10	07/26/24	07/26/24	



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 3:29:17PM

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2430129-BLK1) Prepared: 07/26/24 Analyzed: 07/29/24

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: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

LCS (2430129-BS1) Prepared: 07/26/24 Analyzed: 07/30/24

Benzene	4.97	0.0250	5.00		99.5	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.97	0.0250	5.00		99.4	70-130			
o-Xylene	4.90	0.0250	5.00		98.0	70-130			
p,m-Xylene	9.97	0.0500	10.0		99.7	70-130			
Total Xylenes	14.9	0.0250	15.0		99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

Matrix Spike (2430129-MS1) Source: E407216-04 Prepared: 07/26/24 Analyzed: 07/30/24

Benzene	5.01	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	61-133			
Toluene	5.04	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

Matrix Spike Dup (2430129-MSD1) Source: E407216-04 Prepared: 07/26/24 Analyzed: 07/30/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	2.10	20	
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133	2.15	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	2.15	20	
o-Xylene	5.10	0.0250	5.00	ND	102	63-131	1.95	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	2.26	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	2.16	20	
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			



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 3:29:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430129-BLK1) Prepared: 07/26/24 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: 07/26/24 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: 07/26/24 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: 07/26/24 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 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 3:29:17PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430121-BLK1) Prepared: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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: 07/26/24 Analyzed: 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	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 3:29:17PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2430138-BLK1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	ND	20.0							
LCS (2430138-BS1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2430138-MS1)					Source: E407216-06		Prepared: 07/26/24 Analyzed: 07/26/24		
Chloride	271	200	250	ND	108	80-120			
Matrix Spike Dup (2430138-MSD1)					Source: E407216-06		Prepared: 07/26/24 Analyzed: 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 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	07/30/24 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.



Chain of Custody

Work Order No: 407216Page 3 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	See pg 1
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	(432) 813-8988	Email:	

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	See pg. 1	Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																			None: NO DI Water: H ₂ O					
Project Location		Due Date:	72 hr.	Parameters	BTX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0																	Cool: Cool MeOH: Me		
Sampler's Name:																		HCL: HC HNO ₃ : HN								
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na								
SAMPLE RECEIPT		Temp Blank:	Yes No					Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	H ₃ PO ₄ : HP
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:																						NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:																		Na ₂ S ₂ O ₃ : NaSO ₃						
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:																		Zn Acetate+NaOH: Zn						
Total Containers:		Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC						
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments			
CS-21 (1.5')	7/24/24		X		Comp	1	X	X	X																	
CS-22 (1.5')																										
CS-23 (1.5')																										
CS-24 (1.5')																										
CS-25 (1.5')																										
CS-26 (1.5')																										
CS-27 (1.5')																										
SW-1 (1.5')																										
SW-2 (1.5')																										
SW-3 (1.5')																										

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Michelle Gonzales	7-25-24 9:15	Michelle Gonzales	7-25-24 0915
Andrew Russo	7-25-24 1550	Andrew Russo	7-25-24 1845
	7-26-24 0500	Michelle Russo	7-26-24 0500

Work Order Comments			
Program: UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RC <input type="checkbox"/> Superfund
State of Project:			
Reporting: Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/>	ADaPT	<input type="checkbox"/> Other:

Comments:	
-----------	--

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Michelle Gonzales	7/25/24 9:15	Michelle Gonzales	7-25-24 0915
Indra M. S. S.	7-25-24 1550	Indra M. S. S.	7.25.24 1815
	Page 20 of 20	Ruth B. Heeler	7-26-24 0850

Envirotech Analytical Laboratory

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

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 16:21	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 match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project: Freedom State 36 SWD split up between workorders E407213 & E407216. Time sampled not listed on COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

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, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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 containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - 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
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

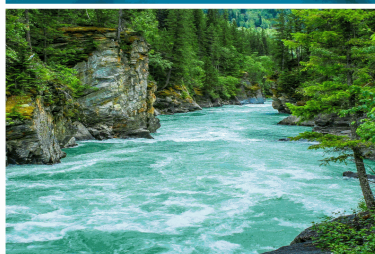
Date



envirotech Inc.

Report to:

Ashton Thielke



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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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 regarding 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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Cell: 775-287-1762
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
SW-11 (1.5')	6
SW-12 (1.5')	7
SW-13 (1.5')	8
SW-14 (1.5')	9
SW-15 (1.5')	10
SW-16 (1.5')	11
SW-17 (1.5')	12
SW-18 (1.5')	13
SW-19 (1.5')	14
SW-20 (1.5')	15
SW-21 (1.5')	16
SW-22 (1.5')	17
SW-23 (1.5')	18
CS-28 (1.5')	19
CS-29 (1.5')	20
CS-30 (1.5')	21
CS-31 (1.5')	22
CS-32 (1.5')	23
QC Summary Data	24
QC - Volatile Organic Compounds by EPA8260B	24

Table of Contents (continued)

QC - Nonhalogenated Organics by EPA 8015D - GRO	25
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	26
QC - Anions by EPA 300.0/9056A	28
Definitions and Notes	29
Chain of Custody etc.	30

Sample Summary

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

Sample Data

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

SW-11 (1.5')
E408033-01

Analyte	Result	Reporting Limit	Dilution	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		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	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
Chloride	ND	200	10	08/06/24	08/06/24	

Sample Data

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

SW-12 (1.5')
E408033-02

Analyte	Result	Reporting Limit	Dilution	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	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	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
Chloride	246	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
8/8/2024 9:56:42AM

SW-13 (1.5')

E408033-03

Analyte	Result	Reporting Limit	Dilution	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		96.2 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		98.1 %	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		96.2 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		98.1 %	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		100 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432027
Chloride	257	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
8/8/2024 9:56:42AM

SW-14 (1.5')

E408033-04

Analyte	Result	Reporting Limit	Dilution	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		96.3 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		97.1 %	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		96.3 %	70-130	08/06/24	08/06/24	
Surrogate: Toluene-d8		97.1 %	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		98.7 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432027
Chloride	235	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
8/8/2024 9:56:42AM

SW-15 (1.5')

E408033-05

Analyte	Result	Reporting Limit	Dilution	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	97.9 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		08/06/24	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
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/06/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		08/06/24	08/06/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		08/06/24	08/06/24	
Surrogate: Toluene-d8	96.7 %	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	08/06/24	
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
Chloride	262	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
8/8/2024 9:56:42AM

SW-16 (1.5')

E408033-06

Analyte	Result	Reporting Limit	Dilution	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		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		Analyst: 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		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		96.8 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432027
Chloride	201	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 8/8/2024 9:56:42AM
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SW-17 (1.5')
E408033-07

Analyte	Result	Reporting Limit	Dilution	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
Chloride	617	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 8/8/2024 9:56:42AM
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SW-18 (1.5')
E408033-08

Analyte	Result	Reporting Limit	Dilution	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	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	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 8/8/2024 9:56:42AM
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SW-19 (1.5')
E408033-09

Analyte	Result	Reporting Limit	Dilution	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		Analyst: 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		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		99.3 %	50-200	08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432027
Chloride	257	20.0	1	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 8/8/2024 9:56:42AM
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SW-20 (1.5')
E408033-10

Analyte	Result	Reporting Limit	Dilution	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	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
8/8/2024 9:56:42AM

SW-21 (1.5')

E408033-11

Analyte	Result	Reporting Limit	Dilution	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		95.7 %	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	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	08/06/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	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	08/06/24	08/06/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
8/8/2024 9:56:42AM

SW-22 (1.5')

E408033-12

Analyte	Result	Reporting Limit	Dilution	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
Chloride	150	20.0	1	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 8/8/2024 9:56:42AM
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SW-23 (1.5')
E408033-13

Analyte	Result	Reporting Limit	Dilution	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
Chloride	ND	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
8/8/2024 9:56:42AM

CS-28 (1.5')

E408033-14

Analyte	Result	Reporting Limit	Dilution	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		95.5 %	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		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		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		97.6 %	50-200	08/06/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432027
Chloride	ND	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 8/8/2024 9:56:42AM
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CS-29 (1.5')
E408033-15

Analyte	Result	Reporting Limit	Dilution	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	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	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
Chloride	553	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 8/8/2024 9:56:42AM
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CS-30 (1.5')
E408033-16

Analyte	Result	Reporting Limit	Dilution	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		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		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		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		Analyst: WF		Batch: 2432027
Chloride	514	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Ashton Thielke	Reported: 8/8/2024 9:56:42AM
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CS-31 (1.5')
E408033-17

Analyte	Result	Reporting Limit	Dilution	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	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	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	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	10	08/06/24	08/06/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Ashton Thielke

Reported:
8/8/2024 9:56:42AM

CS-32 (1.5')

E408033-18

Analyte	Result	Reporting Limit	Dilution	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	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		Analyst: RKS		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		Analyst: KM		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		Analyst: WF		Batch: 2432027
Chloride	355	200	10	08/06/24	08/06/24	



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	8/8/2024 9:56:42AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2432021-BLK1) Prepared: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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			
Toluene	2.14	0.0250	2.50		85.8	70-130			
o-Xylene	2.29	0.0250	2.50		91.5	70-130			
p,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: 08/06/24 Analyzed: 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: E408033-10 Prepared: 08/06/24 Analyzed: 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			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			



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	8/8/2024 9:56:42AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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

Blank (2432021-BLK1) Prepared: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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			



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	8/8/2024 9:56:42AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432030-BLK1) Prepared: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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			



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	8/8/2024 9:56:42AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432031-BLK1) Prepared: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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			



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	8/8/2024 9:56:42AM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2432027-BLK1)					Prepared: 08/06/24 Analyzed: 08/06/24				
Chloride	ND	20.0							
LCS (2432027-BS1)					Prepared: 08/06/24 Analyzed: 08/06/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2432027-MS1)					Source: E408033-04		Prepared: 08/06/24 Analyzed: 08/06/24		
Chloride	475	200	250	235	95.8	80-120			
Matrix Spike Dup (2432027-MSD1)					Source: E408033-04		Prepared: 08/06/24 Analyzed: 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 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	08/08/24 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.



Chain of Custody

Work Order No: E 408033
 Job # 24036-0001

Page 1 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Blackbuck Resources
Company Name:	Carmona Resources	Company Name:	Blackbuck Resources
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	don.gosch@blackbuckresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Freedom State 36 SWD		Turn Around				ANALYSIS REQUEST												Preservative Codes							
Project Number:		2334		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code														None: NO DI Water: H ₂ O							
Project Location		Eddy County, New Mexico		Due Date:		48 Hr.														Cool: Cool MeOH: Me							
Sampler's Name:		GPJ & CMM																		HCL: HC HNO ₃ : HN							
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		<input checked="" type="radio"/> Yes <input type="radio"/> No														H ₃ PO ₄ : HP					
Received Intact:		<input checked="" type="radio"/> Yes <input type="radio"/> No		Thermometer ID:																NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes No N/A		Temperature Reading:		4°C														Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:																NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
SW-11 (1.5')		8/2/2024		8-1-24		X				Comp		1		X X X												Lab # 1	
SW-12 (1.5')		8/2/2024				X				Comp		1		X X X												2	
SW-13 (1.5')		8/2/2024				X				Comp		1		X X X												3	
SW-14 (1.5')		8/2/2024				X				Comp		1		X X X												4	
SW-15 (1.5')		8/2/2024				X				Comp		1		X X X												5	
SW-16 (1.5')		8/2/2024				X				Comp		1		X X X												6	
SW-17 (1.5')		8/2/2024				X				Comp		1		X X X												7	
SW-18 (1.5')		8/2/2024				X				Comp		1		X X X												8	
SW-19 (1.5')		8/2/2024				X				Comp		1		X X X												9	

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

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
<i>Michelle Gonzales</i>		8/5/24 9:24		<i>Michelle Gonzales</i>		8-5-24 0924	
<i>Indra M880</i>		8-5-24 1540		<i>Indra M880</i>		8-5-24 1030	
		8-5-24 2400		<i>St</i>		8-6-24 0830	

Chain of Custody

Work Order No: E 408033Job # 24036-0001Page 2 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Blackbuck Resources
Company Name:	Carmona Resources	Company Name:	Blackbuck Resources
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	don.gosch@blackbuckresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Freedom State 36 SWD		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	2334		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO DI Water: H ₂ O					
Project Location	Eddy County, New Mexico		Due Date:	48 hr.	Parameters	BTEx 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0													Cool: Cool MeOH: Me		
Sampler's Name:	GPJ & CMM																				HCL: HC HNO ₃ : HN		
PO #:																					H ₂ SO ₄ : H ₂ NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:					Yes No													H ₃ PO ₄ : HP	
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID:																			NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No N/A		Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:	Yes No N/A		Temperature Reading:		4°C													Zn Acetate+NaOH: Zn					
Total Containers:			Corrected Temperature:															NaOH+Ascorbic Acid: SAPC					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments				
SW-20 (1.5')	8/1/2024	8-1-24	X		Comp	1	X	X	X											Lab # 10			
SW-21 (1.5')	8/1/2024		X		Comp	1	X	X	X											11			
SW-22 (1.5')	8/1/2024		X		Comp	1	X	X	X											12			
SW-23 (1.5')	8/1/2024		X		Comp	1	X	X	X											13			
CS-28 (1.5')	8/1/2024		X		Comp	1	X	X	X											14			
CS-29 (1.5')	8/1/2024		X		Comp	1	X	X	X											15			
CS-30 (1.5')	8/1/2024		X		Comp	1	X	X	X											16			
CS-31 (1.5')	8/1/2024		X		Comp	1	X	X	X											17			
CS-32 (1.5')	8/1/2024		X		Comp	1	X	X	X											18			

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Michelle Gonzales</i>	8/5/24 7:24	<i>Michelle Gonzales</i>	8-5-24 0924
<i>Andrea Mullo</i>	8-5-24 1540	<i>Andrea Mullo</i>	8-5-24 1830
	8-5-24 2400		8-6-24 0830

Chain of Custody


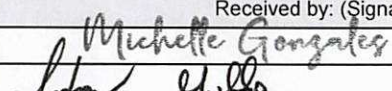
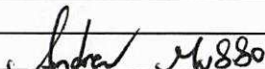

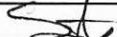
Work Order No: E 408033
Job # 24036-0001Page 1 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Blackbuck Resources
Company Name:	Carmona Resources	Company Name:	Blackbuck Resources
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	don.gosch@blackbuckresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Freedom State 36 SWD		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes			
Project Number:	2334		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300.0																None: NO DI Water: H ₂ O		
Project Location	Eddy County, New Mexico		Due Date: 48 Hr.																				Cool: Cool MeOH: Me		
Sampler's Name:	GPJ & CMM																						HCL: HC HNO ₃ : HN		
PO #:																						H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT			Temp Blank:	Yes No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	H ₃ PO ₄ : HP		
Received Intact:			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:																		NaHSO ₄ : NABIS			
Cooler Custody Seals:			Yes No N/A	Correction Factor:																		Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:			Yes No N/A	Temperature Reading:																		Zn Acetate+NaOH: Zn			
Total Containers:					Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC		
Sample Identification		Date	Time	Soil	Water	Grab/ Comp	# of Cont																	Sample Comments	
SW-11 (1.5')		8/2/2024		X		Comp	1	X	X	X															Lab # 1
SW-12 (1.5')		8/2/2024		X		Comp	1	X	X	X															2
SW-13 (1.5')		8/2/2024		X		Comp	1	X	X	X															3
SW-14 (1.5')		8/2/2024		X		Comp	1	X	X	X															4
SW-15 (1.5')		8/2/2024		X		Comp	1	X	X	X															5
SW-16 (1.5')		8/2/2024		X		Comp	1	X	X	X															6
SW-17 (1.5')		8/2/2024		X		Comp	1	X	X	X															7
SW-18 (1.5')		8/2/2024		X		Comp	1	X	X	X															8
SW-19 (1.5')		8/2/2024		X		Comp	1	X	X	X															9

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/5/24 9:24		8-5-24 0924
	8-5-24 1540		8-5-24 1830
	8-5-24 2400		8-6-24 0830

Chain of Custody

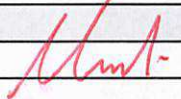
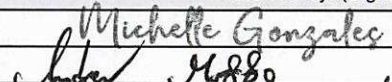


Work Order No: E 408033
Job # 24036-0001Page 2 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Blackbuck Resources
Company Name:	Carmona Resources	Company Name:	Blackbuck Resources
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	don.gosch@blackbuckresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Freedom State 36 SWD		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes	
Project Number:	2334		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300.0																	None: NO DI Water: H ₂ O
Project Location:	Eddy County, New Mexico		Due Date:	48 hr.																	Cool: Cool MeOH: Me		
Sampler's Name:	GPJ & CMM																				HCL: HC HNO ₃ : HN		
PO #:																					H ₂ SO ₄ : H ₂ NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No																		H ₃ PO ₄ : HP
Received Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No		Thermometer ID:																			NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No N/A		Correction Factor:																			Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No N/A		Temperature Reading:		4°C																	Zn Acetate+NaOH: Zn	
Total Containers:			Corrected Temperature:																			NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments
SW-20 (1.5')	8/2/2024		X		Comp	1	X	X	X											Lab # 10			
SW-21 (1.5')	8/2/2024		X		Comp	1	X	X	X											11			
SW-22 (1.5')	8/2/2024		X		Comp	1	X	X	X											12			
SW-23 (1.5')	8/2/2024		X		Comp	1	X	X	X											13			
CS-28 (1.5')	8/2/2024		X		Comp	1	X	X	X											14			
CS-29 (1.5')	8/2/2024		X		Comp	1	X	X	X											15			
CS-30 (1.5')	8/2/2024		X		Comp	1	X	X	X											16			
CS-31 (1.5')	8/2/2024		X		Comp	1	X	X	X											17			
CS-32 (1.5')	8/2/2024		X		Comp	1	X	X	X											18			

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/5/24 7:24		8-5-24 0924
	8-5-24 1540		8-5-24 1830
	8-5-24 2400		8-6-24 0830

Envirotech Analytical Laboratory

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

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:	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)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

This Project has been separated between WOs E408033-E408034. Time sampled is missing on COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

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, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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 containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Conner Moehring



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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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 regarding 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
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

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Laboratory Technical Representative
Office: 505-421-LABS(5227)
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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-33 (1.5')	6
CS-34 (1.5')	7
CS-35 (1.5')	8
CS-36 (1.5')	9
CS-37 (1.5')	10
CS-38 (1.5')	11
CS-39 (1.5')	12
CS-40 (1.5')	13
CS-41 (1.5')	14
CS-42 (1.5')	15
CS-43 (1.5')	16
CS-44 (1.5')	17
CS-45 (1.5')	18
CS-46 (1.5')	19
SW-5 (1.5')	20
QC Summary Data	21
QC - Volatile Organics by EPA 8021B	21
QC - Nonhalogenated Organics by EPA 8015D - GRO	22
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	23
QC - Anions by EPA 300.0/9056A	24

Table of Contents (continued)

Definitions and Notes	25
Chain of Custody etc.	26

Sample Summary

Carmona Resources	Project Name:	Freedom State 36 SWD	Reported:
310 West Wall St. Suite 415	Project Number:	24036-0001	
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.

Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-33 (1.5')
E408034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	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	Analyst: 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	Analyst: JM		Batch: 2432028	
Chloride	ND	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-34 (1.5')
E408034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.2 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	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	08/06/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	165	20.0	1	08/06/24	08/06/24	

Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-35 (1.5')
E408034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.2 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	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	08/06/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	96.4 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	364	20.0	1	08/06/24	08/06/24	

Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Freedom State 36 SWD
Project Number: 24036-0001
Project Manager: Conner Moehring

Reported:
8/7/2024 12:28:51PM

CS-36 (1.5')

E408034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: 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	88.2 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		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	107 %	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	08/06/24	08/06/24	
Surrogate: n-Nonane	104 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432028
Chloride	264	20.0	1	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-37 (1.5')
E408034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.6 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	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	08/06/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	ND	200	10	08/06/24	08/06/24	

Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-38 (1.5')
E408034-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.5 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	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	08/06/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	ND	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-39 (1.5')
E408034-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	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	08/06/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	ND	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-40 (1.5')
E408034-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432022
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	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	08/06/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	123 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432028
Chloride	ND	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-41 (1.5')
E408034-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.6 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	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	08/06/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	122 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	77.6	20.0	1	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-42 (1.5')

E408034-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	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	08/06/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		08/06/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	286	20.0	1	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-43 (1.5')
E408034-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	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	Analyst: 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	Analyst: JM		Batch: 2432028	
Chloride	333	200	10	08/06/24	08/06/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Freedom State 36 SWD Project Number: 24036-0001 Project Manager: Conner Moehring	Reported: 8/7/2024 12:28:51PM
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CS-44 (1.5')
E408034-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	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	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	ND	200	10	08/06/24	08/06/24	



Sample Data

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

CS-45 (1.5')
E408034-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.8 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	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	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	505	200	10	08/06/24	08/06/24	



Sample Data

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

CS-46 (1.5')
E408034-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	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	105 %	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	08/07/24	
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	Analyst: JM		Batch: 2432028	
Chloride	283	200	10	08/06/24	08/06/24	



Sample Data

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

SW-5 (1.5')
E408034-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		08/06/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/24	08/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	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	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/06/24	08/07/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		08/06/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2432028	
Chloride	ND	200	10	08/06/24	08/06/24	



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:	Conner Moehring	8/7/2024 12:28:51PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2432022-BLK1) Prepared: 08/06/24 Analyzed: 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: 4-Bromochlorobenzene-PID	6.99		8.00		87.4	70-130			

LCS (2432022-BS1) Prepared: 08/06/24 Analyzed: 08/06/24

Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.06		8.00		88.2	70-130			

Matrix Spike (2432022-MS1) Source: E408034-09 Prepared: 08/06/24 Analyzed: 08/07/24

Benzene	5.34	0.0250	5.00	ND	107	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.4	61-133			
Toluene	5.24	0.0250	5.00	ND	105	61-130			
o-Xylene	5.06	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.7	70-130			

Matrix Spike Dup (2432022-MSD1) Source: E408034-09 Prepared: 08/06/24 Analyzed: 08/07/24

Benzene	5.41	0.0250	5.00	ND	108	54-133	1.41	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	1.95	20	
Toluene	5.32	0.0250	5.00	ND	106	61-130	1.57	20	
o-Xylene	5.16	0.0250	5.00	ND	103	63-131	1.96	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	1.90	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	1.92	20	
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130			



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:	Conner Moehring	8/7/2024 12:28:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432022-BLK1) Prepared: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: E408034-09 Prepared: 08/06/24 Analyzed: 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: E408034-09 Prepared: 08/06/24 Analyzed: 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			



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:	Conner Moehring	8/7/2024 12:28:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432031-BLK1) Prepared: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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: 08/06/24 Analyzed: 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			



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:	Conner Moehring	8/7/2024 12:28:51PM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2432028-BLK1)					Prepared: 08/06/24 Analyzed: 08/06/24				
Chloride	ND	20.0							
LCS (2432028-BS1)					Prepared: 08/06/24 Analyzed: 08/06/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2432028-MS1)					Source: E408034-04		Prepared: 08/06/24 Analyzed: 08/06/24		
Chloride	483	20.0	250	264	87.3	80-120			
Matrix Spike Dup (2432028-MSD1)					Source: E408034-04		Prepared: 08/06/24 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 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	08/07/24 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.



Chain of Custody

Work Order No: E408034
 Job # 24036-0001

Page 3 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Blackbuck Resources
Company Name:	Carmona Resources	Company Name:	Blackbuck Resources
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	don.gosch@blackbuckresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Freedom State 36 SWD		Turn Around		ANALYSIS REQUEST														Preservative Codes									
Project Number:		2334		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																None: NO DI Water: H ₂ O									
Project Location		Eddy County, New Mexico		Due Date:		48 hr.																Cool: Cool MeOH: Me							
Sampler's Name:		GPJ & CMM																		HCL: HC HNO ₃ : HN									
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na									
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		<input checked="" type="radio"/> Yes <input type="radio"/> No																H ₃ PO ₄ : HP					
Received Intact:		<input checked="" type="radio"/> Yes <input type="radio"/> No		Thermometer ID:																		NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes No N/A		Correction Factor:																		Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes No N/A		Temperature Reading:		40c																Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																Sample Comments	
CS-33 (1.5')		8/2/2024		8-1-24		X				Comp		1		X X X														Lab # 1	
CS-34 (1.5')		8/2/2024				X				Comp		1		X X X														2	
CS-35 (1.5')		8/2/2024				X				Comp		1		X X X														3	
CS-36 (1.5')		8/2/2024				X				Comp		1		X X X														4	
CS-37 (1.5')		8/2/2024				X				Comp		1		X X X														5	
CS-38 (1.5')		8/2/2024				X				Comp		1		X X X														6	
CS-39 (1.5')		8/2/2024				X				Comp		1		X X X														7	
CS-40 (1.5')		8/2/2024				X				Comp		1		X X X														8	
CS-41 (1.5')		8/2/2024				X				Comp		1		X X X														9	

Comments:

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

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
<i>Michelle Gonzales</i>		8/5/24 9:24		<i>Michelle Gonzales</i>		8-5-24 0924	
<i>Andrew M880</i>		8-5-24 1540		<i>Andrew M880</i>		8-5-24 1830	
		8-5-24 2400		<i>Andrew M880</i>		8-6-24 0830	

Chain of Custody

Work Order No: E408034
Job # 24036-0001

Page 4 of 4

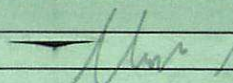
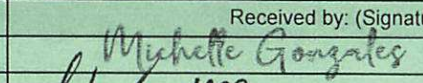
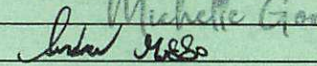
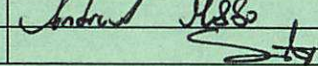
Project Manager:	Ashton Thielke	Bill to: (if different)	Blackbuck Resources
Company Name:	Carmona Resources	Company Name:	Blackbuck Resources
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	don.gosch@blackbuckresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes										
Project Number:	2334	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																			None: NO	DI Water: H ₂ O									
Project Location		Eddy County, New Mexico		Due Date:	48 hr.		Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0																	Cool: Cool	MeOH: Me			
Sampler's Name:		GPJ & CMM																				HCL: HC	HNO ₃ : HN								
PO #:																						H ₂ SO ₄ : H ₂	NaOH: Na								
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:					Yes No																		H ₃ PO ₄ : HP		
Received intact:		Yes No				Thermometer ID:																							NaHSO ₄ : NABIS		
Cooler Custody Seals:		Yes No N/A				Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes No N/A				Temperature Reading:		4°C																		Zn Acetate+NaOH: Zn					
Total Containers:						Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC					
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments							
CS-42 (1.5')		8/2/2024	8-1-24	X		Comp	1	X	X	X															Lab # 10						
CS-43 (1.5')		8/2/2024		X		Comp	1	X	X	X															11						
CS-44 (1.5')		8/2/2024		X		Comp	1	X	X	X															12						
CS-45 (1.5')		8/2/2024		X		Comp	1	X	X	X															13						
CS-46 (1.5')		8/2/2024		X		Comp	1	X	X	X															14						
SW-5 (1.5')		8/2/2024		X		Comp	1	X	X	X															15						

Comments:

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/5/24 9:24		8-5-24 09:24
	8-5-24 15:40		8-5-24 18:30
	8-5-24 24:00		8-6-24 08:30

Chain of Custody

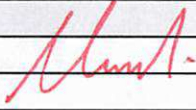
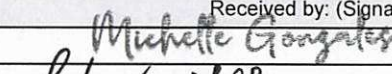
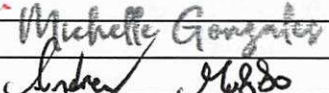
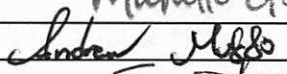

Work Order No: E408034
Job # 24036-0001Page 3 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Blackbuck Resources
Company Name:	Carmona Resources	Company Name:	Blackbuck Resources
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	don.gosch@blackbuckresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes						
Project Number:	2334	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																			None: NO	DI Water: H ₂ O					
Project Location	Eddy County, New Mexico			Due Date:	48 hr.	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0																	Cool: Cool	MeOH: Me
Sampler's Name:	GPJ & CMM																									HCL: HC	HNO ₃ : HN
PO #:																										H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	<input checked="" type="radio"/> Yes <input type="radio"/> No																					H ₃ PO ₄ : HP	
Received Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Thermometer ID:																								NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No N/A	Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4°C																			Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments				
CS-33 (1.5')	8/2/2024		X		Comp	1	X	X	X												Lab # 1						
CS-34 (1.5')	8/2/2024		X		Comp	1	X	X	X												2						
CS-35 (1.5')	8/2/2024		X		Comp	1	X	X	X												3						
CS-36 (1.5')	8/2/2024		X		Comp	1	X	X	X												4						
CS-37 (1.5')	8/2/2024		X		Comp	1	X	X	X												5						
CS-38 (1.5')	8/2/2024		X		Comp	1	X	X	X												6						
CS-39 (1.5')	8/2/2024		X		Comp	1	X	X	X												7						
CS-40 (1.5')	8/2/2024		X		Comp	1	X	X	X												8						
CS-41 (1.5')	8/2/2024		X		Comp	1	X	X	X												9						

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/5/24 9:24		8-5-24 0924
	8-5-24 1540		8-5-24 1830
	8-5-24 2400		8-6-24 0830

Job # 24036-0001

Page 4 of 4

Work Order Comments				
Program:	UST/PT	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RC
				<input type="checkbox"/> Superfund
State of Project:				
Reporting:	Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP
				<input type="checkbox"/> Level IV
Deliverables:	EDD	<input type="checkbox"/>	ADaPT	<input type="checkbox"/>
			Other:	

Comments:

Page 29 of 30

Envirotech Analytical Laboratory

Printed: 8/6/2024 9:27:24AM

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:	08/06/24 08:30	Work Order ID:	E408034
Phone:	(432) 813-6823	Date Logged In:	08/05/24 16:35	Logged In By:	Noe Soto
Email:	cmochring@carmonaresources.com	Due Date:	08/07/24 17:00 (1 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 match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

This Project has been separated between WOs E408033-E408034. Time sampled is missing on COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

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, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

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 containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.



Environment Testing

- 1
- 2
- 3
- 4
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- 7
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- 9
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- 11
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- 14

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



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8/9/2024 12:59:37 PM

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

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

Laboratory Job ID: 880-47006-1
SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19



Definitions/Glossary

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

Job ID: 880-47006-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
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.

Eurofins Midland

Client Sample Results

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

Job ID: 880-47006-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-17 (1.5')
Date Collected: 08/01/24 16:30
Date Received: 08/08/24 08:22

Lab Sample ID: 880-47006-1
Matrix: Solid

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		08/08/24 08:30	08/08/24 14:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 14:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 14:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 14:11	1
o-Xylene	0.00675		0.00200		mg/Kg		08/08/24 08:30	08/08/24 14:11	1
Xylenes, Total	0.00675		0.00400		mg/Kg		08/08/24 08:30	08/08/24 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/08/24 08:30	08/08/24 14:11	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/08/24 08:30	08/08/24 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00675		0.00400		mg/Kg			08/08/24 14:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/08/24 16:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/24 11:53	08/08/24 16:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/24 11:53	08/08/24 16:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/24 11:53	08/08/24 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/08/24 11:53	08/08/24 16:50	1
o-Terphenyl	106		70 - 130				08/08/24 11:53	08/08/24 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		5.02		mg/Kg			08/09/24 07:03	1

Surrogate Summary

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

Job ID: 880-47006-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-47002-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-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-46847-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
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

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

Job ID: 880-47006-1
SDG: Eddy County, New Mexico

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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

Surrogate	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Eurofins Midland

QC Sample Results

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

Job ID: 880-47006-1
SDG: Eddy County, New Mexico

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.08549		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1667		mg/Kg		83	70 - 130
o-Xylene	<0.00202	U	0.100	0.08378		mg/Kg		84	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-47002-A-1-C MSD
Matrix: Solid
Analysis Batch: 87819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08943		mg/Kg		89	70 - 130	3	35
Toluene	<0.00202	U	0.100	0.07623		mg/Kg		76	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.100	0.08211		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1603		mg/Kg		80	70 - 130	4	35
o-Xylene	<0.00202	U	0.100	0.08070		mg/Kg		81	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	69	S1-	70 - 130						
o-Terphenyl	81		70 - 130						

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	848.3		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	946.0		mg/Kg		95	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-47006-1
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	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-87886/3-A
Matrix: Solid
Analysis Batch: 87894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	824.9		mg/Kg		82	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	858.8		mg/Kg		86	70 - 130	10	20
Surrogate	%Recovery	LCSD	LCSD						
1-Chlorooctane	94								
o-Terphenyl	93								

Lab Sample ID: 880-46847-A-1-H MS
Matrix: Solid
Analysis Batch: 87894

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87886

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	997	848.8		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	186		997	1005		mg/Kg		82	70 - 130		
Surrogate	%Recovery	MS	MS								
1-Chlorooctane	114										
o-Terphenyl	121										

Lab Sample ID: 880-46847-A-1-I MSD
Matrix: Solid
Analysis Batch: 87894

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87886

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	997	808.3		mg/Kg		81	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	186		997	954.2		mg/Kg		77	70 - 130	5	20
Surrogate	%Recovery	MSD	MSD								
1-Chlorooctane	111										
o-Terphenyl	115										

Eurofins Midland

QC Sample Results

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

Job ID: 880-47006-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87927/1-A Matrix: Solid Analysis Batch: 87944										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			08/09/24 06:21	1		

Lab Sample ID: LCS 880-87927/2-A Matrix: Solid Analysis Batch: 87944										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.7		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-87927/3-A Matrix: Solid Analysis Batch: 87944										Client Sample ID: Lab Control Sample Dup Prep Type: Soluble	
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-46956-A-1-B MS Matrix: Solid Analysis Batch: 87944										Client Sample ID: Matrix Spike Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1510	F1	1250	3011	F1	mg/Kg		120	90 - 110		

Lab Sample ID: 880-46956-A-1-C MSD Matrix: Solid Analysis Batch: 87944										Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1510	F1	1250	2993	F1	mg/Kg		119	90 - 110	1	20

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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47006-1	SW-17 (1.5')	Total/NA	Solid	8021B	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

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

Lab Chronicle

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

Job ID: 880-47006-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-17 (1.5')
Date Collected: 08/01/24 16:30
Date Received: 08/08/24 08:22

Lab Sample ID: 880-47006-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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

Accreditation/Certification Summary

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

Job ID: 880-47006-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

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

Job ID: 880-47006-1
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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody



880-47006 Chain of Custody



Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RRC <input type="checkbox"/> perfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____	

[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			8/24/22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-47006-1

SDG Number: Eddy County, New Mexico

Login Number: 47006

List Number: 1

List Source: Eurofins Midland

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	

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District IV
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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: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID:
	373619
	Action Number:
	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

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QUESTIONS, Page 2

Action 375409

QUESTIONS (continued)

Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID:	373619
	Action Number:	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
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 375409

QUESTIONS (continued)

Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID:
	373619
	Action Number:
	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 contamination 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 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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QUESTIONS, Page 4

Action 375409

QUESTIONS (continued)

Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID:
	373619
	Action Number:
	375409
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	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
<i>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>	
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
<i>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.</i>	

District I
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District III
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
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QUESTIONS, Page 5

Action 375409

QUESTIONS (continued)

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

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QUESTIONS, Page 6

Action 375409

QUESTIONS (continued)

Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID:	373619
	Action Number:	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.

I hereby agree and sign off to the above statement	Name: Adrienne Tovar Email: adrienne.tovar@blackbuckresources.com Date: 08/20/2024
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 7

Action 375409

QUESTIONS (continued)

Operator: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID: 373619
	Action Number: 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: Blackbuck New Mexico LLC 3200 Southwest Freeway Houston, TX 77027	OGRID: 373619
	Action Number: 375409
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	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