

CARMONA RESOURCES



SITE INFORMATION

Closure

Southern Comfort 5 6 10 12
Eddy County, New Mexico
Incident ID: nAPP2329764387
Unit J Sec 25 T24S R28E
32.1876931°, -104.0373727°

Produced Water

Point of Release: Air eliminator on water line
Release Date: 10/21/23
Volume Released: 24.95 Barrels of Produced Water
Volume Recovered: 23.95 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Marathon Oil Corporation
990 Town and Country Blvd,
Houston, Texas 77024

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

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432.813.1992



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November 2, 2023

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

Re: Closure Report
Southern Comfort 5 6 10 12
Marathon Oil Corporation
Incident ID: nAPP2329764387
Site Location: Unit J, S25, T24S, R28E
(Lat 32.1876931°, Long -104.0373727°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Marathon Oil Company, Carmona Resources, LLC has prepared this letter to document site activities for the Southern Comfort 5 6 10 12. The site is located at 32.1876931°, -104.0373727° within Unit J, S25, T24S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 21, 2023, caused by a failure of an air eliminator on a water line. The incident resulted in the release of twenty-four-point-nine-five (24.95) barrels of produced water, with twenty-three-point-nine-five (23.95) barrels recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.52 miles northwest of the site in S25, T24S, R28E, and was drilled in 2017. The well has a reported depth to groundwater of 90' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

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4.0 Liner Inspection/Site Assessment Activities

Liner Inspection

On November 3, 2023, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility. Before performing the liner inspection, the NMOC division office was notified via email on November 1, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. Carmona Resources, LLC personnel inspected the liner visually and found it intact with no integrity issues. Refer to the Photolog.

Initial Assessment

On November 3, 2023, Carmona Resources, LLC was onsite to perform an initial assessment to evaluate soil impacts stemming from the release. A total of five (5) sample points (S-1 through S-5) and seven (7) horizontal samples (H-1 through H-7) were advanced to depths ranging from the surface to 3' bgs inside and surrounding the release to assess the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

Vertical Delineation

Vertical delineation was achieved for the areas of S-4 and S-5. The areas of S-1, S-2, and S-3 were not vertically delineated due to a dense, cemented geological formation ranging from 1-3' bgs in various release areas. Refer to Table 1.

Horizontal Delineation

All horizontal locations were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Drilling Activities

On November 20, 2023, Carmona Resources, LLC returned to the site to vertically delineate the areas of S-1, S-2, and S-3. Three (3) environmental bores (BH-1 through BH-3) were advanced to depths ranging from the surface to 8' bgs inside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.



5.0 Remediation Activities

Remediation Activities

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on January 26, 2024, and February 15, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. After all hazards were identified, the area of S-1/BH-1 was excavated to a depth of 2.0' below the surface, the areas of S-2/BH-2 and S-3/BH-3 were excavated to a depth of 4.5' below the surface, and the area of S-5 was excavated to a depth of 1.75' below the surface to remove all the impacted soils. A total of sixteen (16) floor confirmation samples were collected (CS-1 through CS-16), and thirty-six (36) sidewall samples (SW-1 through SW-36) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

Confirmation samples CS-7, CS-15, and sidewall samples SW-9, SW-10, SW-11, SW-12, SW-13, SW-15, SW-16, SW-27, SW-30, and SW-31 continued to show elevated chloride levels and were excavated an additional 0.25' to remove contaminated soil.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 240 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

Clinton Merritt
Sr. Project Manager

Devin Dominguez
Sr. Project Manager

FIGURES

CARMONA RESOURCES

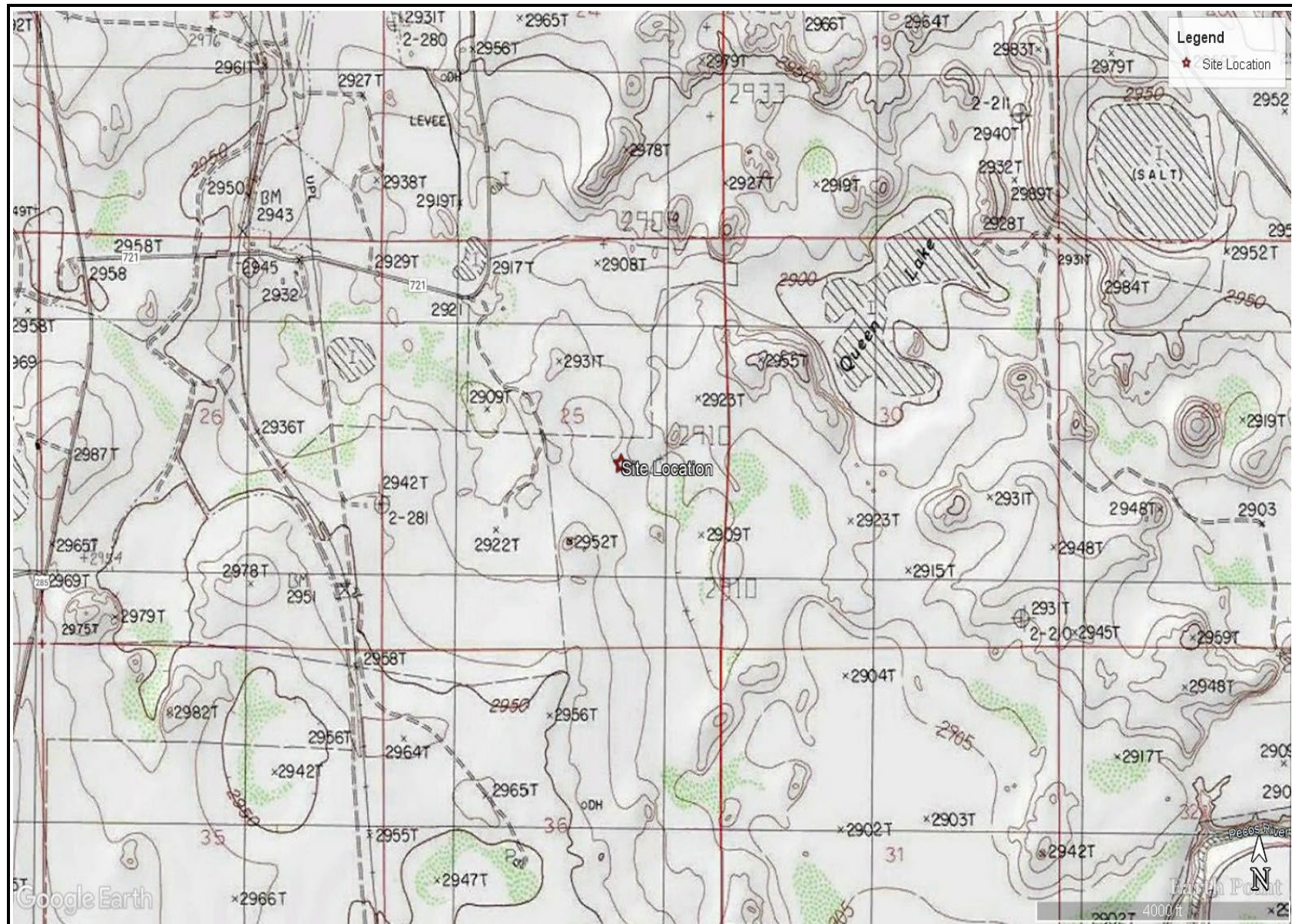




OVERVIEW MAP
MARATHON OIL CORPORATION
SOUTHERN COMFORT 5 6 10 12
EDDY COUNTY, NEW MEXICO
32.18769371°, -104.0373727°



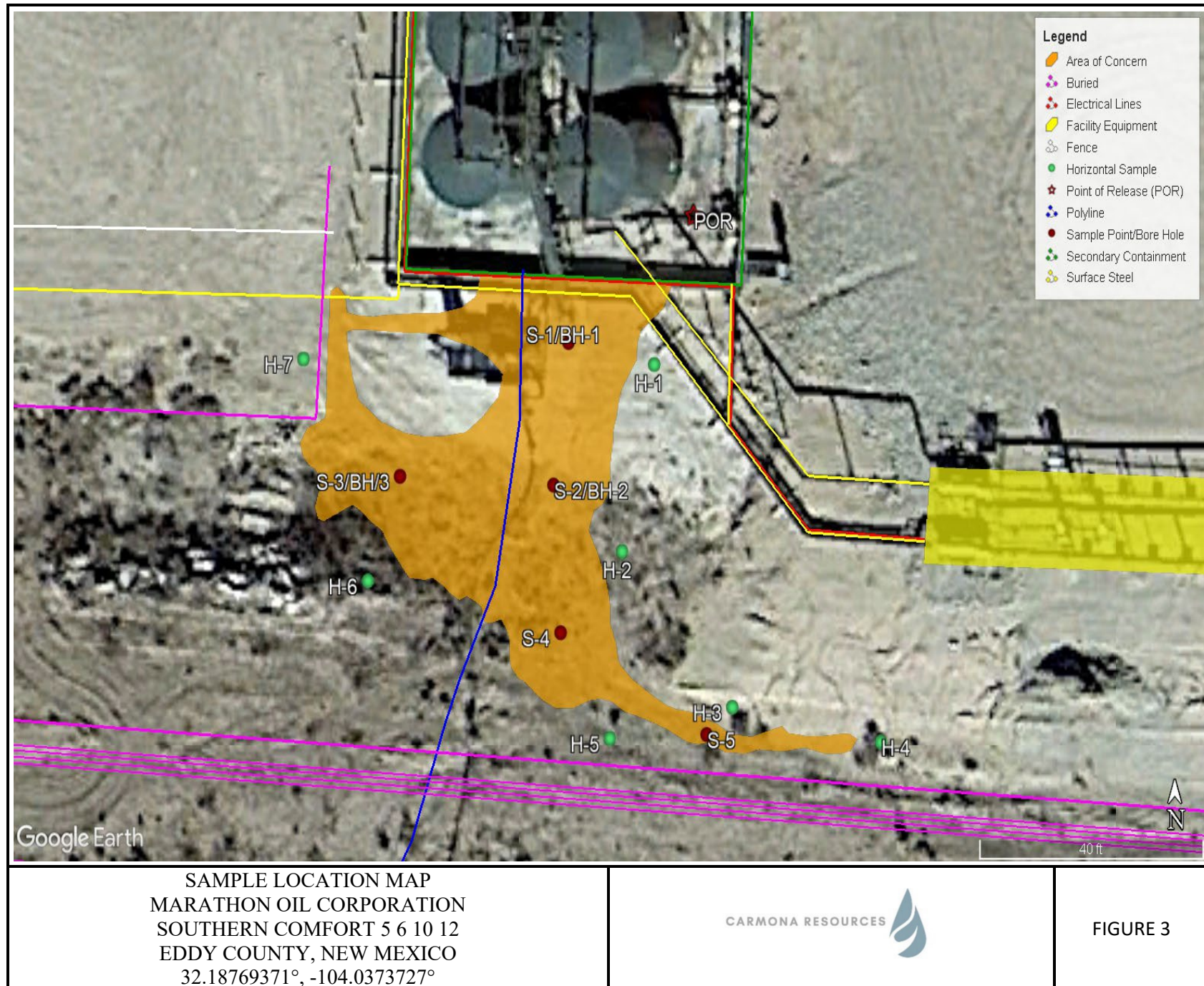
FIGURE 1

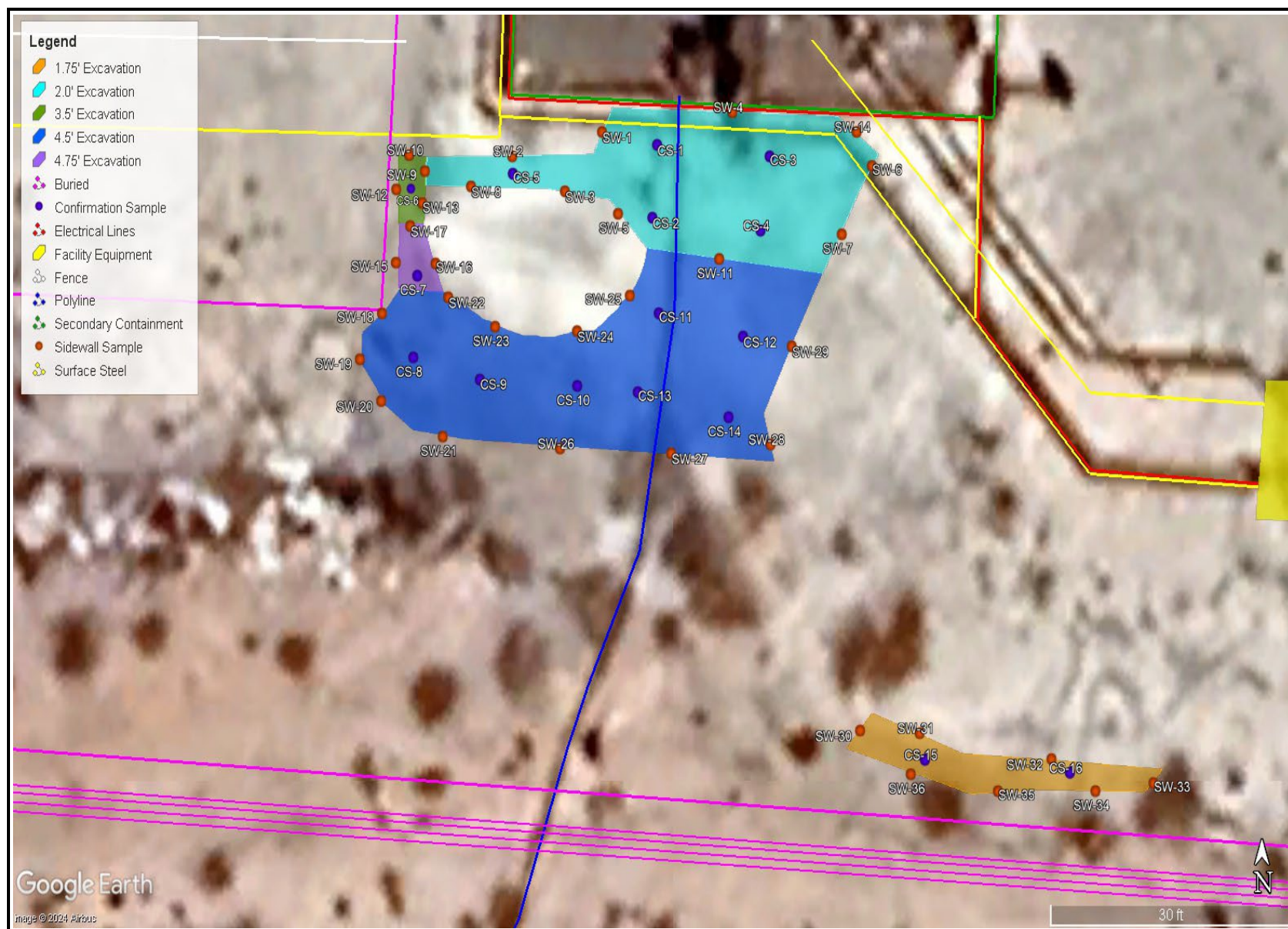


TOPOGRAPHIC MAP
MARATHON OIL CORPORATION
SOUTHERN COMFORT 5 6 10 12
EDDY COUNTY, NEW MEXICO
32.18769371°, -104.0373727°



FIGURE 2





EXCAVATION DEPTH MAP
MARATHON OIL CORPORATION
SOUTHERN COMFORT 5 6 10 12
EDDY COUNTY, NEW MEXICO
32.18769371°, -104.0373727°



FIGURE 4

APPENDIX A

CARMONA RESOURCES



Table 1
Marathon Oil Co.
Southern Comfort 5, 6, 10, 12 (10.21.2023)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	11/3/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,840
BH-1	11/20/2023	0-1	<49.7	59.3	<49.7	59.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,140
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	769
	"	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	48.9
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	17.2
	"	4.0	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.2
	"	5.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	18.5
S-2	11/3/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,930
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,700
	"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,660
	"	3.0	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	610
BH-2	11/20/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00199	0.00237	<0.00199	0.00704	0.00941	2,120
	"	1.5	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,650
	"	2.0	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,050
	"	3.0	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	393
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	71.9
	"	5.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	22.2
	"	6.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.5
S-3	11/3/2023	0-1	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,550
	"	1.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	7,390
	"	2.0	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	4,990
	"	3.0	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,980
BH-3	11/20/2023	0-1	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7,740
	"	1.5	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,410
	"	2.0	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,840
	"	3.0	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	949
	"	4.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	94.7
	"	5.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	21.3
	"	6.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.9
	"	7.0	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	38.1
	"	8.0	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	129
S-4	11/3/2023	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	287
	"	1.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	185
	"	2.0	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	76.1
S-5	11/3/2023	0-1	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	723
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	408
	"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	501
Regulatory Criteria ^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

(BH) Borehole

 Proposed Excavation

Table 1
Marathon Oil Co.
Southern Comfort 5, 6, 10, 12 (10.21.2023)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	11/3/2023	0-0.5	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	7.90
H-2	11/3/2023	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.05
H-3	11/3/2023	0-0.5	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	24.3
H-4	11/3/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.00
H-5	11/3/2023	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	26.0
H-6	11/3/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	237
H-7	11/3/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	239
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

(H) Horizontal Sample

Table 2
Marathon Oil Co.
Southern Comfort 5, 6, 10, 12 (10.212023)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GC1	GC2	GC3	Total						
CS-1	1/31/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	125
CS-2	1/31/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	363
CS-3	1/31/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	373
CS-4	1/31/2024	2.0	<50.3	<50.3	<50.3	<50.3	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	167
CS-5	1/31/2024	2.0	<50.2	<50.2	<50.2	<50.2	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	148
CS-6	1/31/2024	3.5	<50.5	<50.5	<50.5	<50.5	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	737
CS-7	1/31/2024	4.5	<49.7	<49.7	<49.7	<49.7	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	923
	2/20/2024	4.75	<50.0	62.1	<50.0	62.1	<0.0020	<0.0020	<0.0020	<0.0040	<0.0040	51.5
CS-8	1/31/2024	4.5	<49.9	<49.9	<49.9	<49.9	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	66.6
CS-9	1/31/2024	4.5	<49.9	<49.9	<49.9	<49.9	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	39.6
CS-10	1/31/2024	4.5	<49.6	<49.6	<49.6	<49.6	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	523
CS-11	1/31/2024	4.5	<50.3	<50.3	<50.3	<50.3	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	511
CS-12	1/31/2024	4.5	<50.5	<50.5	<50.5	<50.5	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	393
CS-13	1/31/2024	4.5	<49.7	<49.7	<49.7	<49.7	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	586
CS-14	1/31/2024	4.5	<49.6	<49.6	<49.6	<49.6	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	565
CS-15	1/31/2024	1.5	<50.0	<50.0	<50.0	<50.0	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	853
	2/20/2024	1.75	<50.1	92.7	<50.1	92.7	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	107
CS-16	1/31/2024	1.5	<50.3	<50.3	<50.3	<50.3	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	857
	2/20/2024	1.75	<50.3	64.9	<50.3	64.9	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	72.5
SW-1	1/31/2024	2.0	<50.1	<50.1	<50.1	<50.1	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	579
SW-2	1/31/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	352
SW-3	1/31/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	111
SW-4	1/31/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	613
	2/20/2024	2.0	<50.1	95.5	<50.1	95.5	<0.0022	<0.0022	<0.0022	<0.0043	<0.0043	59.0
SW-5	1/31/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	119
SW-6	1/31/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	368
SW-7	1/31/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	116
SW-8	1/31/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	147
SW-9	1/31/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	648
	2/20/2024	2.0	<49.7	69.3	<49.7	69.3	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	60.3
SW-10	1/31/2024	3.5	<49.8	<49.8	<49.8	<49.8	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	691
	2/20/2024	3.5	<49.7	<49.7	<49.7	<49.7	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	73.3
SW-11	1/31/2024	1.5	<50.2	<50.2	<50.2	<50.2	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	879
	2/20/2024	1.5	<49.9	67.7	<49.9	67.7	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	56.0
SW-12	1/31/2024	3.5	<50.5	87.1	<50.5	87.1	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	698
	2/20/2024	3.5	<50.1	65.0	<50.1	65.0	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	86.2
SW-13	1/31/2024	3.5	<50.5	<50.5	<50.5	<50.5	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	662
	2/20/2024	3.5	<50.2	69.5	<50.2	69.5	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	64.2
SW-14	1/31/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	180
SW-15	1/31/2024	4.5	<49.6	<49.6	<49.6	<49.6	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	954
	2/20/2024	4.5	<50.4	73.9	<50.4	73.9	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	70.0
SW-16	1/31/2024	4.5	<49.9	<49.9	<49.9	<49.9	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	1,030
	2/20/2024	4.5	<50.5	59.1	<50.5	59.1	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	55.9
SW-17	1/31/2024	1.0	<49.9	<49.9	<49.9	<49.9	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	77.4
SW-18	1/31/2024	4.5	<50.0	<50.0	<50.0	<50.0	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	77.1
SW-19	1/31/2024	4.5	<49.6	<49.6	<49.6	<49.6	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	82.9
SW-20	1/31/2024	4.5	<49.7	<49.7	<49.7	<49.7	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	86.5
SW-21	1/31/2024	4.5	<50.2	<50.2	<50.2	<50.2	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	510
SW-22	1/31/2024	4.5	<50.4	<50.4	<50.4	<50.4	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	539
SW-23	1/31/2024	4.5	<50.5	<50.5	<50.5	<50.5	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	577
SW-24	1/31/2024	4.5	<50.2	<50.2	<50.2	<50.2	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	532
SW-25	1/31/2024	4.5	<49.8	<49.8	<49.8	<49.8	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	447
SW-26	1/31/2024	4.5	<50.4	<50.4	<50.4	<50.4	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	583
SW-27	1/31/2024	4.5	<50.5	<50.5	<50.5	<50.5	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	684
	2/20/2024	4.5	<50.5	70.1	<50.5	70.1	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	78.5
SW-28	1/31/2024	4.5	<49.7	<49.7	<49.7	<49.7	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	531
SW-29	1/31/2024	4.5	<50.0	<50.0	<50.0	<50.0	<0.0021	<0.0021	<0.0021	<0.0042	<0.0042	553
SW-30	1/31/2024	1.5	<49.8	<49.8	<49.8	<49.8	<0.0020	<0.0020	<0.0020	<0.0041	<0.0041	681
	2/20/2024	1.5	<50.0	60.3	<50.0	60.3	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	48.4
SW-31	1/31/2024	1.5	<49.6	<49.6	<49.6	<49.6	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	1,640
	2/20/2024	1.5	<49.7	73.9	<49.7	73.9	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	78.2
SW-32	1/31/2024	1.5	<50.1	<50.1	<50.1	<50.1	<0.0019	<0.0019	<0.0019	<0.0039	<0.0039	542
SW-33	1/31/2024	1.5	<50.4	<50.4	<50.4	<50.4	<0.0020	<0.0020	<0.0020	<0.0039	<0.0039	431

Regulatory Control^a

(1) Not Analyzed

^a - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

(SW) Sidewall Sample

Removed

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 1

Facility: Southern Comfort 5 6 10 12

County: Eddy County, New Mexico

Description:

View East of liner inside facility berm.



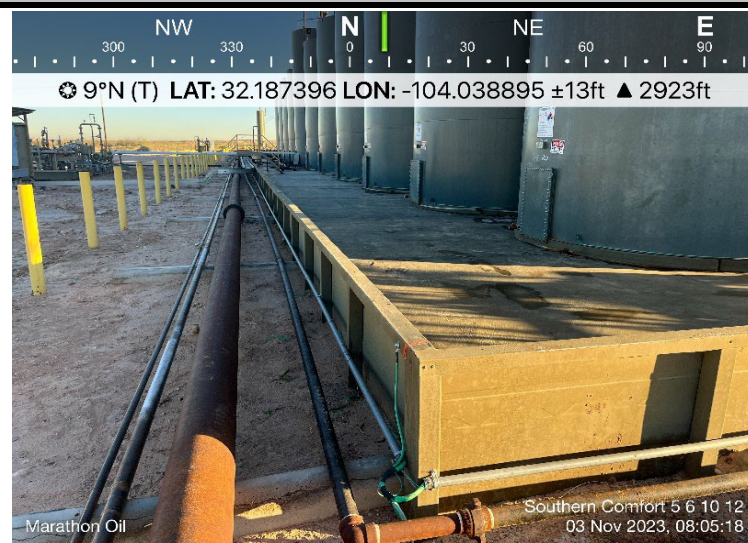
Photograph No. 2

Facility: Southern Comfort 5 6 10 12

County: Eddy County, New Mexico

Description:

View North of liner inside facility berm.



Photograph No. 3

Facility: Southern Comfort 5 6 10 12

County: Eddy County, New Mexico

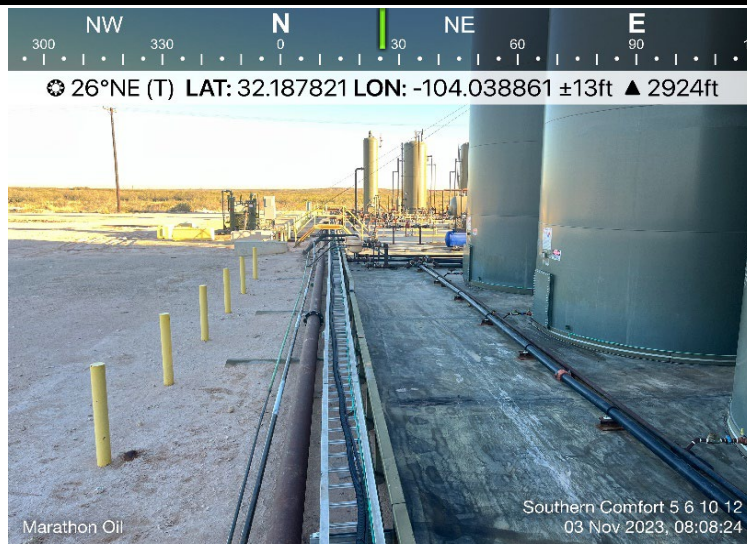
Description:

View South of liner inside facility berm.



PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 4****Facility:** Southern Comfort 5 6 10 12**County:** Eddy County, New Mexico**Description:**

View Northeast of liner inside facility berm.

**Photograph No. 5****Facility:** Southern Comfort 5 6 10 12**County:** Eddy County, New Mexico**Description:**

View Northwest of liner inside facility berm.

**Photograph No. 6****Facility:** Southern Comfort 5 6 10 12**County:** Eddy County, New Mexico**Description:**

View West of area CS-8 through CS-12.



PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 4

Facility: Southern Comfort 5 6 10 12

County: Eddy County, New Mexico

Description:

View South of area CS-7 through CS-8.



Photograph No. 5

Facility: Southern Comfort 5 6 10 12

County: Eddy County, New Mexico

Description:

View East of area CS-8 through CS-12.



Photograph No. 6

Facility: Southern Comfort 5 6 10 12

County: Eddy County, New Mexico

Description:

View Northeast of area CS-15 through CS-16.



PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 4

Facility: Southern Comfort 5 6 10 12

County: Eddy County, New Mexico

Description:

View Northeast of backfilled area CS-1 through CS-14.



APPENDIX C

CARMONA RESOURCES



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2329764387
District RP	
Facility ID	fAPP2126039206
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

Latitude 32.1876931 Longitude- 104.0373727
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Southern Comfort 5 6 10 12	Site Type Oil & Gas Facility
Date Release Discovered: 10/21/23	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	25	24S	28E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 24.95	Volume Recovered (bbls) 23.95
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Failure on an air eliminator on the water line resulted in the release of approx. 24.95 bbl. of produced water within the lined secondary containment and 1 bbl of that spilled just outside containment and onto the pad do to the overspray. Source was isolated. Notice will be sent out prior to liner integrity inspection and the area outside of the containment will be remediated.

Incident ID	nAPP2329764387
District RP	
Facility ID	fAPP2126039206
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Melodie Sanjari</u>	Title: <u>Environmental Professional</u>
Signature: <u>Melodie Sanjari</u>	Date: 10/25/2023
email: <u>msanjari@marathonoil.com</u>	Telephone: <u>575-988-8753</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2329764387
District RP	
Facility ID	fAPP2126039206
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Melodie Sanjari Title: Environmental Professional
Signature: Melodie Sanjari Date: _____
email: msanjari@marathonoil.com Telephone: 575-988-8753

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2329764387
District RP	
Facility ID	fAPP2126039206
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Melodie Sanjari Title: Environmental Professional

Signature: Melodie Sanjari Date: _____

email: msanjari@marathonoil.com Telephone: 575-988-8753

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	nAPP2329764387
District RP	
Facility ID	fAPP2126039206
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: Melodie Sanjari Title: Environmental Professional

Signature: Melodie Sanjari Date 10/9/2023

email: msanjari@marathonoil.com Telephone: 575-988-8753

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: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: Isaac Castro Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: _____ Title: _____

Signature: Isaac Castro Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX D

CARMONA RESOURCES

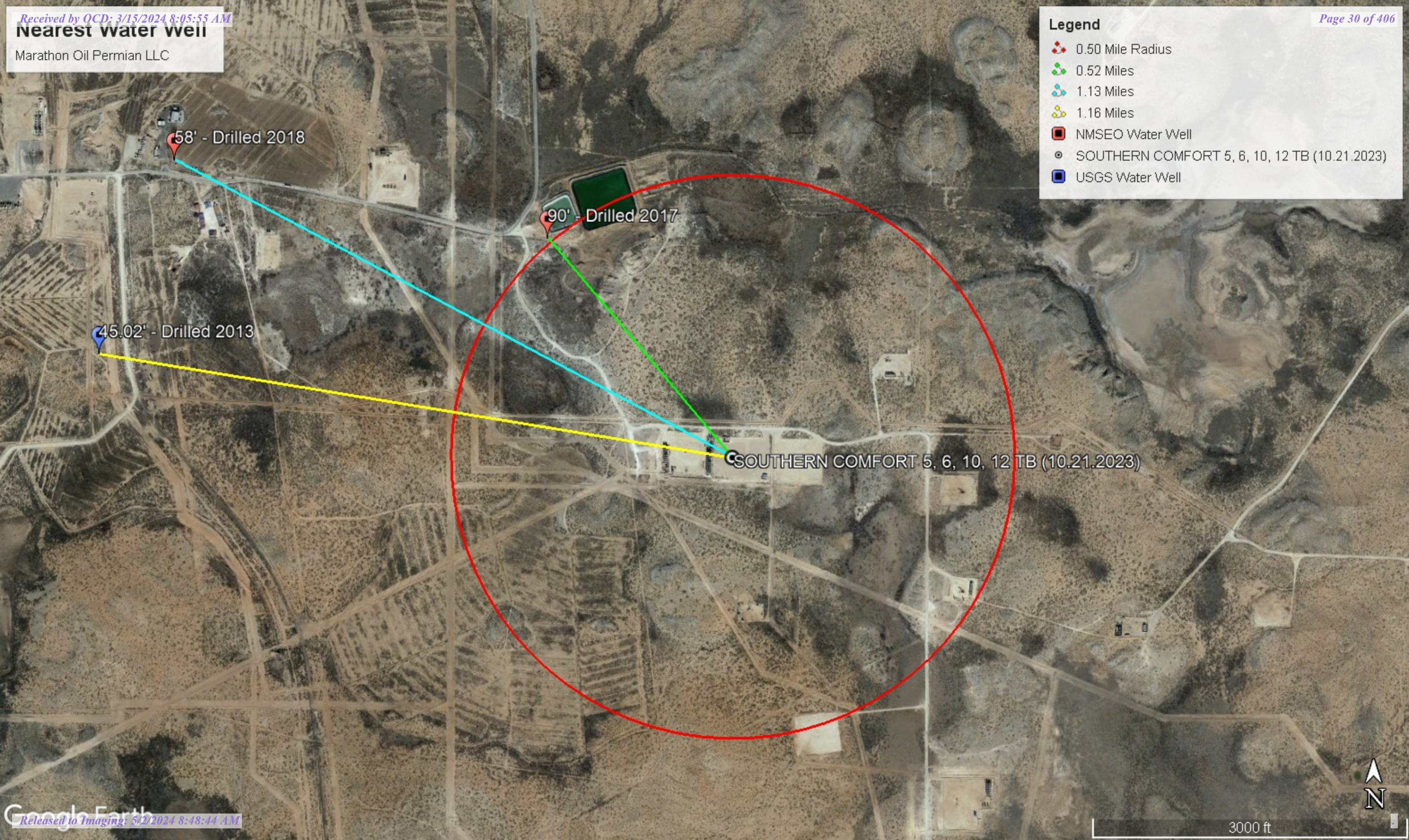


Nearest water well

Marathon Oil Permian LLC

Legend

- 0.50 Mile Radius
- 0.52 Miles
- 1.13 Miles
- 1.16 Miles
- NMSEO Water Well
- SOUTHERN COMFORT 5, 6, 10, 12 TB (10.21.2023)
- USGS Water Well



3000 ft

Medium Karst

Marathon Oil Permian LLC

Legend

- High
- Medium
- SOUTHERN COMFORT 5, 6, 10, 12 TB (10.21.2023)

SOUTHERN COMFORT 5, 6, 10, 12 TB (10.21.2023)





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 04026 POD1	CUB	ED	3	2	1	25	24S	28E	590148	3562290		822	190	90	100
C 00857	CUB	ED	3	1	4	30	24S	29E	592135	3561440*		1472	306		
C 04180 POD1	CUB	ED	2	1	2	26	24S	28E	589055	3562502		1828	160	58	102
C 00856	CUB	ED	1	2	4	30	24S	29E	592538	3561644*		1859	380		
C 00862	CUB	ED	1	2	4	30	24S	29E	592538	3561644*		1859	155		
C 03833 POD1	C	ED	2	1	2	26	24S	28E	589014	3562545		1884	96	55	41
C 03423	CUB	ED	2	4	1	26	24S	28E	588786	3561952		1914	126		

Average Depth to Water: **67 feet**

Minimum Depth: **55 feet**

Maximum Depth: **90 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 590679

Northing (Y): 3561662

Radius: 2000

*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.

10/25/23 9:13 AM

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 04026 POD1	3	2	1	25	24S	28E	590148	3562290 
Driller License: 331		Driller Company:		SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.					
Driller Name:									
Drill Start Date: 04/25/2017		Drill Finish Date:		04/26/2017		Plug Date:			
Log File Date: 05/16/2017		PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 8.60		Depth Well:		190 feet		Depth Water:		90 feet	
Water Bearing Stratifications:				Top	Bottom	Description			
				120	190	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				88	190				

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.

10/23/23 2:07 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

</

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.

10/25/23 9:24 AM

POINT OF DIVERSION SUMMARY

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
				Groundwater	New Mexico	GO	

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321126104032101

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

USGS 321126104032101 24S.28E.26.23133

Eddy County, New Mexico
Latitude 32°11'25.8", Longitude 104°03'27.0" NAD83
Land-surface elevation 2,944.90 feet above NGVD29
The depth of the well is 126 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1978-02-21			D 62610		2917.33	NGVD29	1		Z	
1978-02-21			D 62611		2918.89	NAVD88	1		Z	
1978-02-21			D 72019	27.57			1		Z	
1983-01-31			D 62610		2923.07	NGVD29	1		Z	
1983-01-31			D 62611		2924.63	NAVD88	1		Z	
1983-01-31			D 72019	21.83			1		Z	
1987-10-16			D 62610		2923.07	NGVD29	1		Z	
1987-10-16			D 62611		2924.63	NAVD88	1		Z	
1987-10-16			D 72019	21.83			1		Z	
1988-02-10			D 62610		2923.01	NGVD29	1		Z	
1988-02-10			D 62611		2924.57	NAVD88	1		Z	
1988-02-10			D 72019	21.89			1		Z	
1992-10-20			D 62610		2922.57	NGVD29	1		S	
1992-10-20			D 62611		2924.13	NAVD88	1		S	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
1992-10-20		D	72019	22.33			S
1998-01-23		D	62610	2917.92	NGVD29		S
1998-01-23		D	62611	2919.48	NAVD88		S
1998-01-23		D	72019	26.98			S
2003-02-04		D	62610	2907.65	NGVD29		S
2003-02-04		D	62611	2909.21	NAVD88		S
2003-02-04		D	72019	37.25			S
2013-01-10	21:50 UTC	m	62610	2899.88	NGVD29		S
2013-01-10	21:50 UTC	m	62611	2901.44	NAVD88		S
2013-01-10	21:50 UTC	m	72019	45.02			S

Explanation

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

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=321126104032101&agency_cd=USGS&format=html)

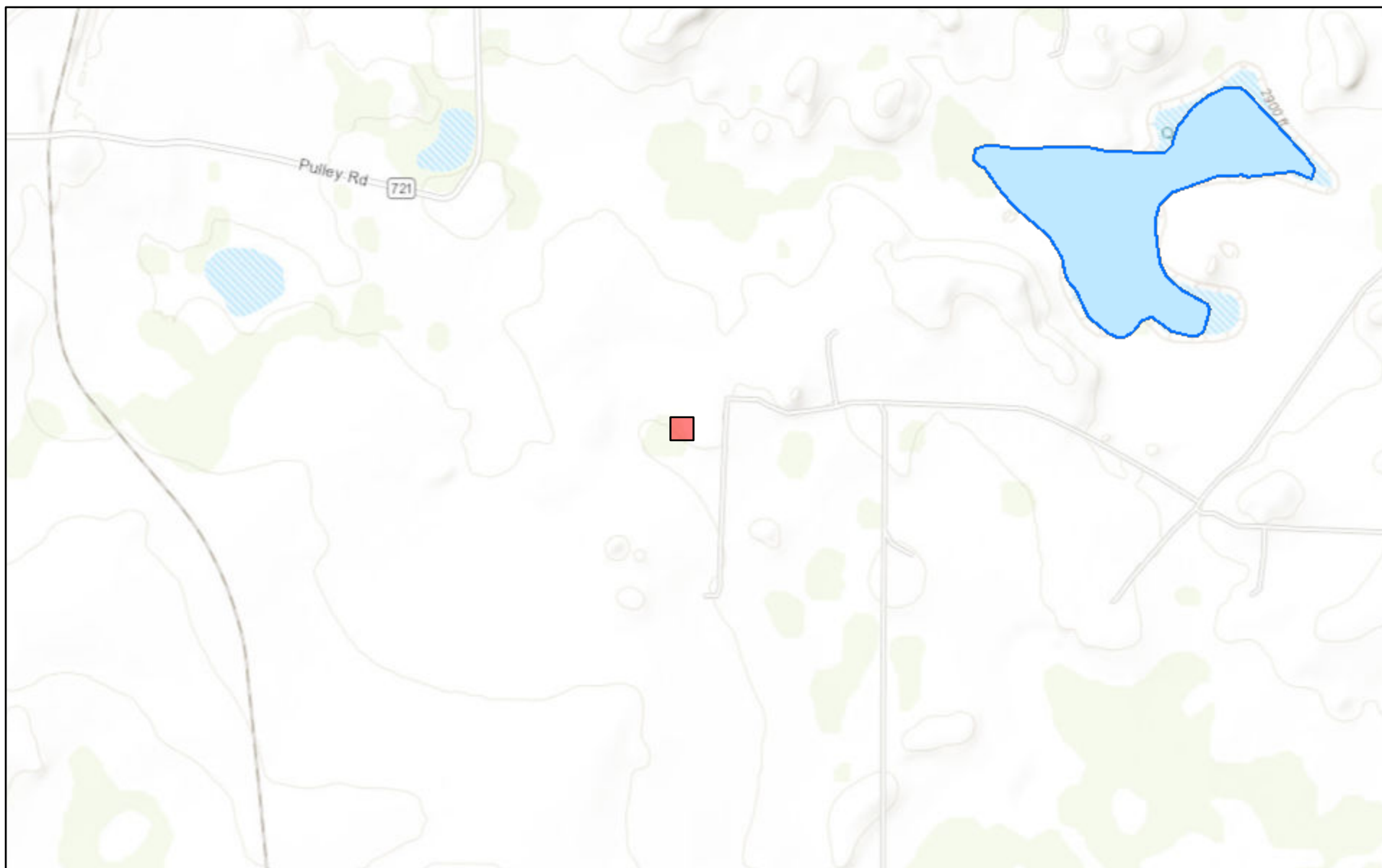
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2023-10-25 11:26:42 EDT

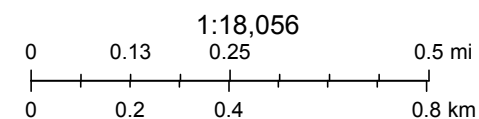
0.29 0.25 nadww01



New Mexico NFHL Data



October 23, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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From: Wells, Shelly, EMNRD
Sent: Wednesday, November 1, 2023 9:42 AM
To: Clint Merritt
Cc: Melodie Sanjari; Castro, Isaac (MRO); Mike Carmona; Conner Moehring; Devin Dominguez; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Marathon - Southern Comfort 5 6 10 12 - Liner Inspection Notification

Good morning Clinton,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Clint Merritt <MerrittC@carmonaresources.com>
Sent: Wednesday, November 1, 2023 8:03 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Melodie Sanjari <msanjari@marathonoil.com>; Castro, Isaac (MRO) <icastro@marathonoil.com>; Mike Carmona <Mcarmona@carmonaresources.com>; Conner Moehring <Cmoehring@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>
Subject: [EXTERNAL] Marathon - Southern Comfort 5 6 10 12 - Liner Inspection Notification

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

Good Morning,

This email is a notification for a liner inspection for the Marathon – Southern Comfort 5 6 10 12. The inspection is scheduled to begin on Friday, November 3rd, around 10:00 a.m. Mountain Time. Carmona Resources personnel will be on-site to document and inspect the liner inside of the facility.

nAPP2329764387

Please call if you have any questions.

Clinton Merritt
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-9044
MerrittC@carmonaresources.com

CARMONA RESOURCES



OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	308309	Districts:	Artesia
Operator:	[372098] MARATHON OIL PERMIAN LLC	Counties:	Eddy
Description:	MARATHON OIL PERMIAN LLC [372098] , SOUTHERN COMFORT 561012 TB , nAPP2329764387		
Status:	APPROVED		
Status Date:	01/26/2024		
References (2):	fAPP2126039206, nAPP2329764387		

Forms

This application type does not have attachments.
--

Questions

Prerequisites	
Incident ID (n#)	nAPP2329764387
Incident Name	NAPP2329764387 SOUTHERN COMFORT 561012 TB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2126039206] SOUTHERN COMFORT 561012 TB

Surface Owner	State
Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,454
What is the estimated number of samples that will be gathered	52
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/31/2024
Time sampling will commence	04:00 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	Clinton Merritt (432) 813- 9044
Please provide any information necessary for navigation to sampling site	From the intersection of US 285 and Pulley Rd (CR 721), travel east on Pulley Rd for 1.17 miles. Turn south (right) onto unmarked lease road and travel 0.41 miles. Turn east (left) onto unmarked lease road and travel 0.13 miles. Job site is in the south of the tank battery.

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: icastro (1/26/2024), 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.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	314701	Districts:	Artesia
Operator:	[372098] MARATHON OIL PERMIAN LLC	Counties:	Eddy
Description:	MARATHON OIL PERMIAN LLC [372098] , SOUTHERN COMFORT 561012 TB , nAPP2329764387		
Status:	APPROVED		
Status Date:	02/15/2024		
References (2):	fAPP2126039206, nAPP2329764387		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2329764387
Incident Name	NAPP2329764387 SOUTHERN COMFORT 561012 TB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2126039206] SOUTHERN COMFORT 561012 TB

Surface Owner	State
Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,454
What is the estimated number of samples that will be gathered	14
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2024
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	Clinton Merritt (432) 813- 9044
Please provide any information necessary for navigation to sampling site	From the intersection of US 285 and Pulley Rd (CR 721), travel east on Pulley Rd for 1.17 miles. Turn south (right) onto unmarked lease road and travel 0.41 miles. Turn east (left) onto unmarked lease road and travel 0.13 miles. Job site is in the pasture to the south of the tank battery.

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: icaastro (2/15/2024), 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.

Searches Operator Data Hearing Fee Application

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APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 11/13/2023 2:04:06 PM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-35379-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
11/13/2023 2:04:06 PM

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

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-35379-1
SDG: Eddy County, New Mexico

Table of Contents

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

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/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

Job ID: 880-35379-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-35379-1**

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 sample was received on 11/6/2023 3:52 PM. 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 -1.7°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-35379-1).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66374 and 880-66737 and analytical batch 880-66684 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-66317 and analytical batch 880-66340 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66340/20), (CCV 880-66340/31), (CCV 880-66340/5), (CCV 880-66340/57) and (CCV 880-66340/58). 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35379-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 20:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 20:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 20:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/07/23 13:38	11/11/23 20:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 20:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/07/23 13:38	11/11/23 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/07/23 13:38	11/11/23 20:44	1
1,4-Difluorobenzene (Surr)	115		70 - 130	11/07/23 13:38	11/11/23 20:44	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			11/11/23 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/07/23 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		11/07/23 08:34	11/07/23 17:36	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/07/23 08:34	11/07/23 17:36	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/07/23 08:34	11/07/23 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	11/07/23 08:34	11/07/23 17:36	1
o-Terphenyl	90		70 - 130	11/07/23 08:34	11/07/23 17:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		49.6		mg/Kg			11/11/23 20:27	10

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
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)
880-35379-1	S-1 (0-1')	108	115
880-35383-A-1-A MS	Matrix Spike	111	104
880-35383-A-1-B MSD	Matrix Spike Duplicate	107	106
LCS 880-66374/1-A	Lab Control Sample	94	109
LCSD 880-66374/2-A	Lab Control Sample Dup	105	105
MB 880-66374/5-A	Method Blank	112	148 S1+
MB 880-66373/5-A	Method Blank	111	140 S1+
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)
880-35379-1	S-1 (0-1')	90	90
890-5564-A-18-B MS	Matrix Spike	95	86
890-5564-A-18-C MSD	Matrix Spike Duplicate	96	89
LCS 880-66317/2-A	Lab Control Sample	103	115
LCSD 880-66317/3-A	Lab Control Sample Dup	98	101
MB 880-66317/1-A	Method Blank	162 S1+	169 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66374/5-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/07/23 13:38	11/11/23 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/07/23 13:38	11/11/23 12:36	1
1,4-Difluorobenzene (Surr)	148	S1+	70 - 130	11/07/23 13:38	11/11/23 12:36	1

Lab Sample ID: LCS 880-66374/1-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1210		mg/Kg		121	70 - 130
Toluene	0.100	0.09759		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09011		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-66374/2-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1181		mg/Kg		118	70 - 130	2	35
Toluene	0.100	0.09679		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.09554		mg/Kg		96	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2185		mg/Kg		109	70 - 130	7	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	5	35

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

Lab Sample ID: 880-35383-A-1-A MS

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09797		mg/Kg		98	70 - 130
Toluene	<0.00199	U	0.0996	0.08425		mg/Kg		85	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35383-A-1-A MS

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.07323		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1788		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08545		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-35383-A-1-B MSD

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1024		mg/Kg		103	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.08336		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0990	0.07097		mg/Kg		72	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1681		mg/Kg		85	70 - 130	6	35
o-Xylene	<0.00199	U	0.0990	0.08061		mg/Kg		81	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-66737/5-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/23 14:57	11/11/23 00:58	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/10/23 14:57	11/11/23 00:58	1
1,4-Difluorobenzene (Surr)	140	S1+	70 - 130	11/10/23 14:57	11/11/23 00:58	1

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

Lab Sample ID: MB 880-66317/1-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66317

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		11/06/23 16:35	11/07/23 08:58	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-66317/1-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66317

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/06/23 16:35	11/07/23 08:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/06/23 16:35	11/07/23 08:58	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	162	S1+	70 - 130				11/06/23 16:35	11/07/23 08:58	1
o-Terphenyl	169	S1+	70 - 130				11/06/23 16:35	11/07/23 08:58	1

Lab Sample ID: LCS 880-66317/2-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	924.3		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	115		70 - 130						

Lab Sample ID: LCSD 880-66317/3-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	932.7		mg/Kg		93	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130	4	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 890-5564-A-18-B MS

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	737.2		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	759.3		mg/Kg		74	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	95		70 - 130								
o-Terphenyl	86		70 - 130								

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-5564-A-18-C MSD

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66317

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	<50.1	U	1010	744.9		mg/Kg		71	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	798.0		mg/Kg		77	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66462/1-A

Matrix: Solid

Analysis Batch: 66742

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			11/11/23 19:08	1

Lab Sample ID: LCS 880-66462/2-A

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-66462/3-A

Matrix: Solid

Analysis Batch: 66742

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	247.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-35345-A-37-C MS

Matrix: Solid

Analysis Batch: 66742

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	76.9		252	325.0		mg/Kg		99	90 - 110

Lab Sample ID: 880-35345-A-37-D MSD

Matrix: Solid

Analysis Batch: 66742

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	76.9		252	325.1		mg/Kg		99	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 66374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35379-1	S-1 (0-1')	Total/NA	Solid	5035	
MB 880-66374/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66374/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66374/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35383-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-35383-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35379-1	S-1 (0-1')	Total/NA	Solid	8021B	66374
MB 880-66374/5-A	Method Blank	Total/NA	Solid	8021B	66374
MB 880-66737/5-A	Method Blank	Total/NA	Solid	8021B	66737
LCS 880-66374/1-A	Lab Control Sample	Total/NA	Solid	8021B	66374
LCSD 880-66374/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66374
880-35383-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	66374
880-35383-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66374

Prep Batch: 66737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66737/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 66870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35379-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35379-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-66317/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66317/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66317/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5564-A-18-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5564-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35379-1	S-1 (0-1')	Total/NA	Solid	8015B NM	66317
MB 880-66317/1-A	Method Blank	Total/NA	Solid	8015B NM	66317
LCS 880-66317/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66317
LCSD 880-66317/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66317
890-5564-A-18-B MS	Matrix Spike	Total/NA	Solid	8015B NM	66317
890-5564-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	66317

Analysis Batch: 66483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35379-1	S-1 (0-1')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 66462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35379-1	S-1 (0-1')	Soluble	Solid	DI Leach	
MB 880-66462/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66462/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66462/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35345-A-37-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-35345-A-37-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 66742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35379-1	S-1 (0-1')	Soluble	Solid	300.0	66462
MB 880-66462/1-A	Method Blank	Soluble	Solid	300.0	66462
LCS 880-66462/2-A	Lab Control Sample	Soluble	Solid	300.0	66462
LCSD 880-66462/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66462
880-35345-A-37-C MS	Matrix Spike	Soluble	Solid	300.0	66462
880-35345-A-37-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	66462

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35379-1
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			4.99 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66870	11/11/23 20:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			66483	11/07/23 17:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	66317	11/07/23 08:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66340	11/07/23 17:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		10			66742	11/11/23 20:27	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: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
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

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

Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
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: Southern Comfort 5 6 10 12

Job ID: 880-35379-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35379-1	S-1 (0-1')	Solid	11/03/23 00:00	11/06/23 15:52

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

7
5
6
6
6
6



880-35379 Chain of Custody

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35379-1

SDG Number: Eddy County, New Mexico

Login Number: 35379

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 11/14/2023 9:53:21 AM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
Eddy County, New Mexico

JOB NUMBER

880-35384-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
11/14/2023 9:53:21 AM

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

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-35384-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

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
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/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

Job ID: 880-35384-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-35384-1**

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 11/6/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-2 (0-1') (880-35384-1), S-2 (1.5') (880-35384-2), S-2 (2') (880-35384-3) and S-2 (3') (880-35384-4).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66374 and 880-66737 and analytical batch 880-66684 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.

GC Semi VOA

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-66463 and analytical batch 880-66743 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35384-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 14:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 14:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	11/07/23 13:38	11/11/23 14:27	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/07/23 13:38	11/11/23 14:27	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			11/11/23 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/13/23 23:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		11/10/23 13:16	11/13/23 23:21	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/10/23 13:16	11/13/23 23:21	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/10/23 13:16	11/13/23 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	11/10/23 13:16	11/13/23 23:21	1
o-Terphenyl	127		70 - 130	11/10/23 13:16	11/13/23 23:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930	F1	49.7		mg/Kg			11/11/23 22:43	10

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-35384-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 14:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 14:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/07/23 13:38	11/11/23 14:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/07/23 13:38	11/11/23 14:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-35384-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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			11/11/23 14:48	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			11/14/23 04:15	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		11/10/23 13:16	11/14/23 04:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/10/23 13:16	11/14/23 04:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/10/23 13:16	11/14/23 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				11/10/23 13:16	11/14/23 04:15	1
o-Terphenyl	130		70 - 130				11/10/23 13:16	11/14/23 04:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		25.2		mg/Kg			11/13/23 07:38	5

Client Sample ID: S-2 (2')

Lab Sample ID: 880-35384-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 15:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 15:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 15:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/07/23 13:38	11/11/23 15:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 15:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/07/23 13:38	11/11/23 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/07/23 13:38	11/11/23 15:08	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/07/23 13:38	11/11/23 15:08	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			11/11/23 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/14/23 04:37	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	<49.6	U	49.6		mg/Kg		11/10/23 13:16	11/14/23 04:37	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/10/23 13:16	11/14/23 04:37	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (2')

Lab Sample ID: 880-35384-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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)	<49.6	U	49.6		mg/Kg		11/10/23 13:16	11/14/23 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/10/23 13:16	11/14/23 04:37	1
o-Terphenyl	116		70 - 130				11/10/23 13:16	11/14/23 04:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		25.2		mg/Kg			11/13/23 07:43	5

Client Sample ID: S-2 (3')

Lab Sample ID: 880-35384-4

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 15:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/07/23 13:38	11/11/23 15:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/07/23 13:38	11/11/23 15:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/07/23 13:38	11/11/23 15:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/07/23 13:38	11/11/23 15:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/07/23 13:38	11/11/23 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/07/23 13:38	11/11/23 15:29	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/07/23 13:38	11/11/23 15:29	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			11/11/23 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/14/23 05:00	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	<50.4	U	50.4		mg/Kg		11/10/23 13:16	11/14/23 05:00	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/10/23 13:16	11/14/23 05:00	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/10/23 13:16	11/14/23 05:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/10/23 13:16	11/14/23 05:00	1
o-Terphenyl	117		70 - 130				11/10/23 13:16	11/14/23 05:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		50.1		mg/Kg			11/13/23 08:09	10

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
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)
880-35383-A-1-A MS	Matrix Spike	111	104
880-35383-A-1-B MSD	Matrix Spike Duplicate	107	106
880-35384-1	S-2 (0-1')	114	112
880-35384-2	S-2 (1.5')	112	110
880-35384-3	S-2 (2')	105	109
880-35384-4	S-2 (3')	105	109
LCS 880-66374/1-A	Lab Control Sample	94	109
LCSD 880-66374/2-A	Lab Control Sample Dup	105	105
MB 880-66374/5-A	Method Blank	112	148 S1+
MB 880-66737/5-A	Method Blank	111	140 S1+
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)
880-35384-1	S-2 (0-1')	114	127
880-35384-1 MS	S-2 (0-1')	113	114
880-35384-1 MSD	S-2 (0-1')	116	116
880-35384-2	S-2 (1.5')	118	130
880-35384-3	S-2 (2')	104	116
880-35384-4	S-2 (3')	107	117
LCS 880-66716/2-A	Lab Control Sample	107	125
LCSD 880-66716/3-A	Lab Control Sample Dup	76	88
MB 880-66716/1-A	Method Blank	112	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66374/5-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/07/23 13:38	11/11/23 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/07/23 13:38	11/11/23 12:36	1
1,4-Difluorobenzene (Surr)	148	S1+	70 - 130	11/07/23 13:38	11/11/23 12:36	1

Lab Sample ID: LCS 880-66374/1-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1210		mg/Kg		121	70 - 130
Toluene	0.100	0.09759		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09011		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-66374/2-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1181		mg/Kg		118	70 - 130	2	35
Toluene	0.100	0.09679		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.09554		mg/Kg		96	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2185		mg/Kg		109	70 - 130	7	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	5	35

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

Lab Sample ID: 880-35383-A-1-A MS

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09797		mg/Kg		98	70 - 130
Toluene	<0.00199	U	0.0996	0.08425		mg/Kg		85	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35383-A-1-A MS

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.07323		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1788		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08545		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-35383-A-1-B MSD

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1024		mg/Kg		103	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.08336		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0990	0.07097		mg/Kg		72	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1681		mg/Kg		85	70 - 130	6	35
o-Xylene	<0.00199	U	0.0990	0.08061		mg/Kg		81	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-66737/5-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/23 14:57	11/11/23 00:58	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/10/23 14:57	11/11/23 00:58	1
1,4-Difluorobenzene (Surr)	140	S1+	70 - 130	11/10/23 14:57	11/11/23 00:58	1

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

Lab Sample ID: MB 880-66716/1-A

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66716

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		11/10/23 13:16	11/13/23 22:12	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-66716/1-A

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66716

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/23 13:16	11/13/23 22:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/23 13:16	11/13/23 22:12	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	112		70 - 130				11/10/23 13:16	11/13/23 22:12	1
o-Terphenyl	127		70 - 130				11/10/23 13:16	11/13/23 22:12	1

Lab Sample ID: LCS 880-66716/2-A

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	936.3		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	983.0		mg/Kg		98	70 - 130		
Surrogate	LCS	LCS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	107		70 - 130						
o-Terphenyl	125		70 - 130						

Lab Sample ID: LCSD 880-66716/3-A

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66716

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	833.1		mg/Kg		83	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	844.4		mg/Kg		84	70 - 130	15	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	76		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: 880-35384-1 MS

Matrix: Solid

Analysis Batch: 66797

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

Prep Type: Total/NA

Prep Batch: 66716

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1036		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1085		mg/Kg		104	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	113		70 - 130								
o-Terphenyl	114		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35384-1 MSD							Client Sample ID: S-2 (0-1')					
Matrix: Solid							Prep Type: Total/NA					
Analysis Batch: 66797							Prep Batch: 66716					
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	<50.3	U	1000	1133		mg/Kg		111	70 - 130	9	20	
Diesel Range Organics (Over C10-C28)	<50.3	U	1000	1110		mg/Kg		106	70 - 130	2	20	
	MSD %Recovery	MSD Qualifier	Limits									
Surrogate												
1-Chlorooctane	116		70 - 130									
o-Terphenyl	116		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66463/1-A							Client Sample ID: Method Blank					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 66743												
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<5.00	U	5.00		mg/Kg			11/11/23 22:26	1			

Lab Sample ID: LCS 880-66463/2-A							Client Sample ID: Lab Control Sample					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 66743												
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	247.3		mg/Kg		99	90 - 110			

Lab Sample ID: LCSD 880-66463/3-A							Client Sample ID: Lab Control Sample Dup					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 66743												
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride			250	248.0		mg/Kg		99	90 - 110	0	20	

Lab Sample ID: 880-35384-1 MS							Client Sample ID: S-2 (0-1')					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 66743												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	1930	F1	2490	4963	F1	mg/Kg		122	90 - 110			

Lab Sample ID: 880-35384-1 MSD							Client Sample ID: S-2 (0-1')					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 66743												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	1930	F1	2490	4932	F1	mg/Kg		121	90 - 110	1	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 66374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-1	S-2 (0-1')	Total/NA	Solid	5035	
880-35384-2	S-2 (1.5')	Total/NA	Solid	5035	
880-35384-3	S-2 (2')	Total/NA	Solid	5035	
880-35384-4	S-2 (3')	Total/NA	Solid	5035	
MB 880-66374/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66374/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66374/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35383-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-35383-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-1	S-2 (0-1')	Total/NA	Solid	8021B	66374
880-35384-2	S-2 (1.5')	Total/NA	Solid	8021B	66374
880-35384-3	S-2 (2')	Total/NA	Solid	8021B	66374
880-35384-4	S-2 (3')	Total/NA	Solid	8021B	66374
MB 880-66374/5-A	Method Blank	Total/NA	Solid	8021B	66374
MB 880-66737/5-A	Method Blank	Total/NA	Solid	8021B	66737
LCS 880-66374/1-A	Lab Control Sample	Total/NA	Solid	8021B	66374
LCSD 880-66374/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66374
880-35383-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	66374
880-35383-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66374

Prep Batch: 66737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66737/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 66868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-1	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-35384-2	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-35384-3	S-2 (2')	Total/NA	Solid	Total BTEX	
880-35384-4	S-2 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-1	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-35384-2	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-35384-3	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-35384-4	S-2 (3')	Total/NA	Solid	8015NM Prep	
MB 880-66716/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66716/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66716/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35384-1 MS	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-35384-1 MSD	S-2 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-1	S-2 (0-1')	Total/NA	Solid	8015B NM	66716

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 66797 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-2	S-2 (1.5')	Total/NA	Solid	8015B NM	66716
880-35384-3	S-2 (2')	Total/NA	Solid	8015B NM	66716
880-35384-4	S-2 (3')	Total/NA	Solid	8015B NM	66716
MB 880-66716/1-A	Method Blank	Total/NA	Solid	8015B NM	66716
LCS 880-66716/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66716
LCSD 880-66716/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66716
880-35384-1 MS	S-2 (0-1')	Total/NA	Solid	8015B NM	66716
880-35384-1 MSD	S-2 (0-1')	Total/NA	Solid	8015B NM	66716

Analysis Batch: 66964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-1	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-35384-2	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-35384-3	S-2 (2')	Total/NA	Solid	8015 NM	
880-35384-4	S-2 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-1	S-2 (0-1')	Soluble	Solid	DI Leach	
880-35384-2	S-2 (1.5')	Soluble	Solid	DI Leach	
880-35384-3	S-2 (2')	Soluble	Solid	DI Leach	
880-35384-4	S-2 (3')	Soluble	Solid	DI Leach	
MB 880-66463/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66463/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66463/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35384-1 MS	S-2 (0-1')	Soluble	Solid	DI Leach	
880-35384-1 MSD	S-2 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 66743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35384-1	S-2 (0-1')	Soluble	Solid	300.0	66463
880-35384-2	S-2 (1.5')	Soluble	Solid	300.0	66463
880-35384-3	S-2 (2')	Soluble	Solid	300.0	66463
880-35384-4	S-2 (3')	Soluble	Solid	300.0	66463
MB 880-66463/1-A	Method Blank	Soluble	Solid	300.0	66463
LCS 880-66463/2-A	Lab Control Sample	Soluble	Solid	300.0	66463
LCSD 880-66463/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66463
880-35384-1 MS	S-2 (0-1')	Soluble	Solid	300.0	66463
880-35384-1 MSD	S-2 (0-1')	Soluble	Solid	300.0	66463

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (0-1')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35384-1
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			5.03 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66868	11/11/23 14:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			66964	11/13/23 23:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/13/23 23:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		10			66743	11/11/23 22:43	CH	EET MID

Client Sample ID: S-2 (1.5')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35384-2
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			5.02 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66868	11/11/23 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			66964	11/14/23 04:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 04:15	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		5			66743	11/13/23 07:38	CH	EET MID

Client Sample ID: S-2 (2')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35384-3
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			5.01 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 15:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66868	11/11/23 15:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			66964	11/14/23 04:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 04:37	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		5			66743	11/13/23 07:43	CH	EET MID

Client Sample ID: S-2 (3')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35384-4
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			4.97 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 15:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66868	11/11/23 15:29	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35384-4
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			66964	11/14/23 05:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 05:00	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		10			66743	11/13/23 08:09	CH	EET MID

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 14

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
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

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

Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
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: Southern Comfort 5 6 10 12

Job ID: 880-35384-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35384-1	S-2 (0-1')	Solid	11/03/23 00:00	11/06/23 15:52
880-35384-2	S-2 (1.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35384-3	S-2 (2')	Solid	11/03/23 00:00	11/06/23 15:52
880-35384-4	S-2 (3')	Solid	11/03/23 00:00	11/06/23 15:52

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



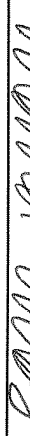
880-35384 Chain of Custody

Project Manager		Clinton Merritt	Bill to: (if different)	Melodie Sanjan
Company Name		Cammona Resources	Company Name	Marathon Oil Corporation
Address		310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP		Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone			Email	msanjanl@marathonoil.com

Work Order Comments Program, UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Perfund ☐ State of Project: Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐ Deliverables, EDD ☐ ADAPT ☐ Other	
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[illegible]

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	11-0-73 1530		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35384-1

SDG Number: Eddy County, New Mexico

Login Number: 35384

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 11/13/2023 2:04:40 PM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-35383-1

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
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-35383-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

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
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

Job ID: 880-35383-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-35383-1**

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 11/6/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-3 (0-1') (880-35383-1), S-3 (1.5') (880-35383-2), S-3 (2') (880-35383-3) and S-3 (3') (880-35383-4).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66374 and 880-66737 and analytical batch 880-66684 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-3 (0-1') (880-35383-1), S-3 (1.5') (880-35383-2), S-3 (2') (880-35383-3), S-3 (3') (880-35383-4), (890-5569-A-19-C), (890-5569-A-19-D MS) and (890-5569-A-19-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-66679/47). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-66455 and analytical batch 880-66679 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35383-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 13:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 13:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 13:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 13:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 13:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	11/07/23 13:38	11/11/23 13:05	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/07/23 13:38	11/11/23 13:05	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			11/11/23 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/11/23 04:00	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	<49.6	U	49.6		mg/Kg		11/07/23 17:50	11/11/23 04:00	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/07/23 17:50	11/11/23 04:00	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/07/23 17:50	11/11/23 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	184	S1+	70 - 130	11/07/23 17:50	11/11/23 04:00	1
o-Terphenyl	168	S1+	70 - 130	11/07/23 17:50	11/11/23 04:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4550		49.6		mg/Kg			11/11/23 21:35	10

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-35383-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 13:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 13:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 13:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/07/23 13:38	11/11/23 13:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 13:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/07/23 13:38	11/11/23 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/07/23 13:38	11/11/23 13:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/07/23 13:38	11/11/23 13:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-35383-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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			11/11/23 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/11/23 04:22	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	<50.5	U	50.5		mg/Kg		11/07/23 17:50	11/11/23 04:22	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/07/23 17:50	11/11/23 04:22	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/07/23 17:50	11/11/23 04:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	195	S1+	70 - 130				11/07/23 17:50	11/11/23 04:22	1
o-Terphenyl	179	S1+	70 - 130				11/07/23 17:50	11/11/23 04:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7390		50.5		mg/Kg			11/11/23 21:41	10

Client Sample ID: S-3 (2')

Lab Sample ID: 880-35383-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 13:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 13:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 13:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/07/23 13:38	11/11/23 13:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 13:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/07/23 13:38	11/11/23 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				11/07/23 13:38	11/11/23 13:46	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/07/23 13:38	11/11/23 13:46	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			11/11/23 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/11/23 04:44	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	<50.4	U	50.4		mg/Kg		11/07/23 17:50	11/11/23 04:44	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/07/23 17:50	11/11/23 04:44	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2')

Lab Sample ID: 880-35383-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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)	<50.4	U	50.4		mg/Kg		11/07/23 17:50	11/11/23 04:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	191	S1+	70 - 130				11/07/23 17:50	11/11/23 04:44	1
o-Terphenyl	175	S1+	70 - 130				11/07/23 17:50	11/11/23 04:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4990		101		mg/Kg			11/11/23 21:46	20

Client Sample ID: S-3 (3')

Lab Sample ID: 880-35383-4

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 14:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 14:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 14:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/07/23 13:38	11/11/23 14:07	1
1,4-Difluorobenzene (Surr)	115		70 - 130				11/07/23 13:38	11/11/23 14:07	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			11/11/23 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/11/23 05:06	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	<50.5	U	50.5		mg/Kg		11/07/23 17:50	11/11/23 05:06	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/07/23 17:50	11/11/23 05:06	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/07/23 17:50	11/11/23 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130				11/07/23 17:50	11/11/23 05:06	1
o-Terphenyl	147	S1+	70 - 130				11/07/23 17:50	11/11/23 05:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4980		100		mg/Kg			11/11/23 21:52	20

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
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)
880-35383-1	S-3 (0-1')	88	102
880-35383-1 MS	S-3 (0-1')	111	104
880-35383-1 MSD	S-3 (0-1')	107	106
880-35383-2	S-3 (1.5')	96	107
880-35383-3	S-3 (2')	107	107
880-35383-4	S-3 (3')	99	115
LCS 880-66374/1-A	Lab Control Sample	94	109
LCSD 880-66374/2-A	Lab Control Sample Dup	105	105
MB 880-66374/5-A	Method Blank	112	148 S1+
MB 880-66737/5-A	Method Blank	111	140 S1+
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)
880-35383-1	S-3 (0-1')	184 S1+	168 S1+
880-35383-2	S-3 (1.5')	195 S1+	179 S1+
880-35383-3	S-3 (2')	191 S1+	175 S1+
880-35383-4	S-3 (3')	161 S1+	147 S1+
890-5569-A-19-D MS	Matrix Spike	175 S1+	148 S1+
890-5569-A-19-E MSD	Matrix Spike Duplicate	153 S1+	130
LCS 880-66455/2-A	Lab Control Sample	104	109
LCSD 880-66455/3-A	Lab Control Sample Dup	105	115
MB 880-66455/1-A	Method Blank	113	105
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66374/5-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66374

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/07/23 13:38	11/11/23 12:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	112		70 - 130	11/07/23 13:38	11/11/23 12:36	1
1,4-Difluorobenzene (Surr)	148	S1+	70 - 130	11/07/23 13:38	11/11/23 12:36	1

Lab Sample ID: LCS 880-66374/1-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1210		mg/Kg		121	70 - 130
Toluene	0.100	0.09759		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09011		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-66374/2-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1181		mg/Kg		118	70 - 130	2	35
Toluene	0.100	0.09679		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.09554		mg/Kg		96	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2185		mg/Kg		109	70 - 130	7	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	5	35

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

Lab Sample ID: 880-35383-1 MS

Matrix: Solid

Analysis Batch: 66684

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

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.00199	U	0.0996	0.09797		mg/Kg		98	70 - 130
Toluene	<0.00199	U	0.0996	0.08425		mg/Kg		85	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35383-1 MS
Matrix: Solid
Analysis Batch: 66684

Client Sample ID: S-3 (0-1')
Prep Type: Total/NA
Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.07323		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1788		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08545		mg/Kg		85	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	111		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 880-35383-1 MSD
Matrix: Solid
Analysis Batch: 66684

Client Sample ID: S-3 (0-1')
Prep Type: Total/NA
Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1024		mg/Kg		103	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.08336		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0990	0.07097		mg/Kg		72	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1681		mg/Kg		85	70 - 130	6	35
o-Xylene	<0.00199	U	0.0990	0.08061		mg/Kg		81	70 - 130	6	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	107		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

Lab Sample ID: MB 880-66737/5-A
Matrix: Solid
Analysis Batch: 66684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	111		70 - 130						
1,4-Difluorobenzene (Surr)	140	S1+	70 - 130						

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

Lab Sample ID: MB 880-66455/1-A
Matrix: Solid
Analysis Batch: 66679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66455

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		11/07/23 17:50	11/10/23 19:49	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-66455/1-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66679							Prep Batch: 66455		
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		11/07/23 17:50	11/10/23 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/23 17:50	11/10/23 19:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				11/07/23 17:50	11/10/23 19:49	1
o-Terphenyl	105		70 - 130				11/07/23 17:50	11/10/23 19:49	1

Lab Sample ID: LCS 880-66455/2-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66679							Prep Batch: 66455		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	872.1		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)			1000	906.7		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: LCSD 880-66455/3-A						Client Sample ID: Lab Control Sample Dup						
Matrix: Solid						Prep Type: Total/NA						
Analysis Batch: 66679						Prep Batch: 66455						
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD	
			Added	Result	Qualifier							Limits
Gasoline Range Organics (GRO)-C6-C10			1000	846.2		mg/Kg		85	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)			1000	889.6		mg/Kg		89	70 - 130	2	20	
			LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	105		70 - 130									
o-Terphenyl	115		70 - 130									

Lab Sample ID: 890-5569-A-19-D MS							Client Sample ID: Matrix Spike				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 66679							Prep Batch: 66455				
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F2	1010	907.9		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	1313		mg/Kg		129	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	175	S1+	70 - 130								
o-Terphenyl	148	S1+	70 - 130								

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-5569-A-19-E MSD

Matrix: Solid

Analysis Batch: 66679

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66455

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	<49.5	U F2	1010	1194	F2	mg/Kg		119	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	1175		mg/Kg		115	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	153	S1+	70 - 130								
o-Terphenyl	130		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66462/1-A

Matrix: Solid

Analysis Batch: 66742

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			11/11/23 19:08	1

Lab Sample ID: LCS 880-66462/2-A

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-66462/3-A

Matrix: Solid

Analysis Batch: 66742

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	247.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-35381-A-2-D MS

Matrix: Solid

Analysis Batch: 66742

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	408		1240	1683		mg/Kg		103	90 - 110

Lab Sample ID: 880-35381-A-2-E MSD

Matrix: Solid

Analysis Batch: 66742

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	408		1240	1685		mg/Kg		103	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 66374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-1	S-3 (0-1')	Total/NA	Solid	5035	
880-35383-2	S-3 (1.5')	Total/NA	Solid	5035	
880-35383-3	S-3 (2')	Total/NA	Solid	5035	
880-35383-4	S-3 (3')	Total/NA	Solid	5035	
MB 880-66374/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66374/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66374/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35383-1 MS	S-3 (0-1')	Total/NA	Solid	5035	
880-35383-1 MSD	S-3 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 66684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-1	S-3 (0-1')	Total/NA	Solid	8021B	66374
880-35383-2	S-3 (1.5')	Total/NA	Solid	8021B	66374
880-35383-3	S-3 (2')	Total/NA	Solid	8021B	66374
880-35383-4	S-3 (3')	Total/NA	Solid	8021B	66374
MB 880-66374/5-A	Method Blank	Total/NA	Solid	8021B	66374
MB 880-66737/5-A	Method Blank	Total/NA	Solid	8021B	66737
LCS 880-66374/1-A	Lab Control Sample	Total/NA	Solid	8021B	66374
LCSD 880-66374/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66374
880-35383-1 MS	S-3 (0-1')	Total/NA	Solid	8021B	66374
880-35383-1 MSD	S-3 (0-1')	Total/NA	Solid	8021B	66374

Prep Batch: 66737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66737/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 66867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-1	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-35383-2	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-35383-3	S-3 (2')	Total/NA	Solid	Total BTEX	
880-35383-4	S-3 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-1	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-35383-2	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-35383-3	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-35383-4	S-3 (3')	Total/NA	Solid	8015NM Prep	
MB 880-66455/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66455/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66455/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5569-A-19-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5569-A-19-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-1	S-3 (0-1')	Total/NA	Solid	8015B NM	66455

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 66679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-2	S-3 (1.5')	Total/NA	Solid	8015B NM	66455
880-35383-3	S-3 (2')	Total/NA	Solid	8015B NM	66455
880-35383-4	S-3 (3')	Total/NA	Solid	8015B NM	66455
MB 880-66455/1-A	Method Blank	Total/NA	Solid	8015B NM	66455
LCS 880-66455/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66455
LCSD 880-66455/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66455
890-5569-A-19-D MS	Matrix Spike	Total/NA	Solid	8015B NM	66455
890-5569-A-19-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	66455

Analysis Batch: 66840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-1	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-35383-2	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-35383-3	S-3 (2')	Total/NA	Solid	8015 NM	
880-35383-4	S-3 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-1	S-3 (0-1')	Soluble	Solid	DI Leach	
880-35383-2	S-3 (1.5')	Soluble	Solid	DI Leach	
880-35383-3	S-3 (2')	Soluble	Solid	DI Leach	
880-35383-4	S-3 (3')	Soluble	Solid	DI Leach	
MB 880-66462/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66462/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66462/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35381-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-35381-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 66742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35383-1	S-3 (0-1')	Soluble	Solid	300.0	66462
880-35383-2	S-3 (1.5')	Soluble	Solid	300.0	66462
880-35383-3	S-3 (2')	Soluble	Solid	300.0	66462
880-35383-4	S-3 (3')	Soluble	Solid	300.0	66462
MB 880-66462/1-A	Method Blank	Soluble	Solid	300.0	66462
LCS 880-66462/2-A	Lab Control Sample	Soluble	Solid	300.0	66462
LCSD 880-66462/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66462
880-35381-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	66462
880-35381-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	66462

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (0-1')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35383-1
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			5.03 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 13:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66867	11/11/23 13:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			66840	11/11/23 04:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	66455	11/07/23 17:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66679	11/11/23 04:00	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		10			66742	11/11/23 21:35	CH	EET MID

Client Sample ID: S-3 (1.5')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35383-2
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			5.01 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 13:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66867	11/11/23 13:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			66840	11/11/23 04:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	66455	11/07/23 17:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66679	11/11/23 04:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		10			66742	11/11/23 21:41	CH	EET MID

Client Sample ID: S-3 (2')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35383-3
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	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66867	11/11/23 13:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			66840	11/11/23 04:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	66455	11/07/23 17:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66679	11/11/23 04:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		20			66742	11/11/23 21:46	CH	EET MID

Client Sample ID: S-3 (3')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35383-4
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			5.02 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66867	11/11/23 14:07	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35383-4
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			66840	11/11/23 05:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	66455	11/07/23 17:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66679	11/11/23 05:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		20			66742	11/11/23 21:52	CH	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: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
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

- 1
- 2
- 3
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- 13
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Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
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: Southern Comfort 5 6 10 12

Job ID: 880-35383-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35383-1	S-3 (0-1')	Solid	11/03/23 00:00	11/06/23 15:52
880-35383-2	S-3 (1.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35383-3	S-3 (2')	Solid	11/03/23 00:00	11/06/23 15:52
880-35383-4	S-3 (3')	Solid	11/03/23 00:00	11/06/23 15:52

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[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35383-1

SDG Number: Eddy County, New Mexico

Login Number: 35383

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 11/13/2023 11:53:19 AM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-35382-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
11/13/2023 11:53:19 AM

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

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-35382-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

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/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

Job ID: 880-35382-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-35382-1**

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 11/6/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-4 (0-1') (880-35382-1), S-4 (1.5') (880-35382-2) and S-4 (2') (880-35382-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66262 and 880-66319 and analytical batch 880-66231 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-66317 and analytical batch 880-66340 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66340/20), (CCV 880-66340/31), (CCV 880-66340/5), (CCV 880-66340/57) and (CCV 880-66340/58). 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35382-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/06/23 17:07	11/08/23 06:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 06:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 06:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/06/23 17:07	11/08/23 06:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 06:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/06/23 17:07	11/08/23 06:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				11/06/23 17:07	11/08/23 06:44	1
1,4-Difluorobenzene (Surr)	112		70 - 130				11/06/23 17:07	11/08/23 06:44	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			11/08/23 06:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/23 19:23	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		11/07/23 08:34	11/07/23 19:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/23 08:34	11/07/23 19:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/23 08:34	11/07/23 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/07/23 08:34	11/07/23 19:23	1
o-Terphenyl	91		70 - 130				11/07/23 08:34	11/07/23 19:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		5.04		mg/Kg			11/13/23 10:41	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-35382-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/06/23 17:07	11/08/23 07:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/06/23 17:07	11/08/23 07:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/06/23 17:07	11/08/23 07:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/06/23 17:07	11/08/23 07:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/06/23 17:07	11/08/23 07:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/06/23 17:07	11/08/23 07:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				11/06/23 17:07	11/08/23 07:05	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/06/23 17:07	11/08/23 07:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (1.5')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35382-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/08/23 07:05	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			11/07/23 19:44	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		11/07/23 08:34	11/07/23 19:44	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/07/23 08:34	11/07/23 19:44	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/07/23 08:34	11/07/23 19:44	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	88		70 - 130				11/07/23 08:34	11/07/23 19:44	1	
o-Terphenyl	91		70 - 130				11/07/23 08:34	11/07/23 19:44	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	185		5.00		mg/Kg			11/13/23 10:46	1	

Client Sample ID: S-4 (2')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35382-3
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		11/06/23 17:07	11/08/23 07:25	1	
Toluene	<0.00198	U	0.00198		mg/Kg		11/06/23 17:07	11/08/23 07:25	1	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/06/23 17:07	11/08/23 07:25	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/06/23 17:07	11/08/23 07:25	1	
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/06/23 17:07	11/08/23 07:25	1	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/06/23 17:07	11/08/23 07:25	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		70 - 130				11/06/23 17:07	11/08/23 07:25	1	
1,4-Difluorobenzene (Surr)	112		70 - 130				11/06/23 17:07	11/08/23 07:25	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			11/08/23 07:25	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5		mg/Kg			11/07/23 20:05	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	<50.5	U	50.5		mg/Kg		11/07/23 08:34	11/07/23 20:05	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/07/23 08:34	11/07/23 20:05	1	

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (2')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35382-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/07/23 08:34	11/07/23 20:05	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	89		70 - 130				11/07/23 08:34	11/07/23 20:05	1	
o-Terphenyl	91		70 - 130				11/07/23 08:34	11/07/23 20:05	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	76.1		5.03		mg/Kg			11/13/23 10:52	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
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)
880-34990-A-6-A MB	Method Blank	89	114
880-35382-1	S-4 (0-1')	103	112
880-35382-2	S-4 (1.5')	101	104
880-35382-3	S-4 (2')	99	112
890-5566-A-1-C MS	Matrix Spike	100	107
890-5566-A-1-D MSD	Matrix Spike Duplicate	94	106
LCS 880-66319/1-A	Lab Control Sample	95	108
LCSD 880-66319/2-A	Lab Control Sample Dup	94	109
MB 880-66262/5-A	Method Blank	116	152 S1+
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)
880-35382-1	S-4 (0-1')	90	91
880-35382-2	S-4 (1.5')	88	91
880-35382-3	S-4 (2')	89	91
890-5564-A-18-B MS	Matrix Spike	95	86
890-5564-A-18-C MSD	Matrix Spike Duplicate	96	89
LCS 880-66317/2-A	Lab Control Sample	103	115
LCSD 880-66317/3-A	Lab Control Sample Dup	98	101
MB 880-66317/1-A	Method Blank	162 S1+	169 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66262/5-A

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/06/23 11:29	11/07/23 12:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/06/23 11:29	11/07/23 12:04	1
1,4-Difluorobenzene (Surr)	152	S1+	70 - 130	11/06/23 11:29	11/07/23 12:04	1

Lab Sample ID: 880-34990-A-6-A MB

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/06/23 17:07	11/08/23 05:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	11/06/23 17:07	11/08/23 05:22	1
1,4-Difluorobenzene (Surr)	114		70 - 130	11/06/23 17:07	11/08/23 05:22	1

Lab Sample ID: LCS 880-66319/1-A

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.09486		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.08840		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.2102		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-66319/2-A

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66319

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1032		mg/Kg		103	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-66319/2-A

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66319

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	
Toluene	0.100	0.09356			mg/Kg		94	70 - 130	1	35
Ethylbenzene	0.100	0.08388			mg/Kg		84	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1941			mg/Kg		97	70 - 130	8	35
o-Xylene	0.100	0.09487			mg/Kg		95	70 - 130	7	35
LCSD		LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	94		70 - 130							
1,4-Difluorobenzene (Surr)	109		70 - 130							

Lab Sample ID: 890-5566-A-1-C MS

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66319

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Benzene	<0.00199	U	0.0996	0.09646		mg/Kg		97	70 - 130	
Toluene	<0.00199	U	0.0996	0.07486		mg/Kg		75	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.07053		mg/Kg		71	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1634		mg/Kg		82	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.08304		mg/Kg		83	70 - 130	
MS		MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	100		70 - 130							
1,4-Difluorobenzene (Surr)	107		70 - 130							

Lab Sample ID: 890-5566-A-1-D MSD

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66319

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Benzene	<0.00199	U	0.0990	0.09714		mg/Kg		98	70 - 130	1
Toluene	<0.00199	U	0.0990	0.08114		mg/Kg		82	70 - 130	8
Ethylbenzene	<0.00199	U	0.0990	0.07147		mg/Kg		72	70 - 130	1
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1705		mg/Kg		86	70 - 130	4
o-Xylene	<0.00199	U	0.0990	0.08622		mg/Kg		87	70 - 130	4
MSD		MSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	94		70 - 130							
1,4-Difluorobenzene (Surr)	106		70 - 130							

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

Lab Sample ID: MB 880-66317/1-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66317

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		11/06/23 16:35	11/07/23 08:58	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-66317/1-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66317

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/06/23 16:35	11/07/23 08:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/06/23 16:35	11/07/23 08:58	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	162	S1+	70 - 130				11/06/23 16:35	11/07/23 08:58	1
o-Terphenyl	169	S1+	70 - 130				11/06/23 16:35	11/07/23 08:58	1

Lab Sample ID: LCS 880-66317/2-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	924.3		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	115		70 - 130						

Lab Sample ID: LCSD 880-66317/3-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	932.7		mg/Kg		93	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130	4	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 890-5564-A-18-B MS

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	737.2		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	759.3		mg/Kg		74	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	95		70 - 130								
o-Terphenyl	86		70 - 130								

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-5564-A-18-C MSD

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	744.9		mg/Kg		71	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	798.0		mg/Kg		77	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66462/1-A

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			11/11/23 19:08	1

Lab Sample ID: LCS 880-66462/2-A

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-66462/3-A

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	247.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-35345-A-37-C MS

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	76.9		252	325.0		mg/Kg		99	90 - 110		

Lab Sample ID: 880-35345-A-37-D MSD

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Chloride	76.9		252	325.1		mg/Kg		99	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 66231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35382-1	S-4 (0-1')	Total/NA	Solid	8021B	66319
880-35382-2	S-4 (1.5')	Total/NA	Solid	8021B	66319
880-35382-3	S-4 (2')	Total/NA	Solid	8021B	66319
880-34990-A-6-A MB	Method Blank	Total/NA	Solid	8021B	66319
MB 880-66262/5-A	Method Blank	Total/NA	Solid	8021B	66262
LCS 880-66319/1-A	Lab Control Sample	Total/NA	Solid	8021B	66319
LCSD 880-66319/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66319
890-5566-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	66319
890-5566-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66319

Prep Batch: 66262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66262/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 66319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35382-1	S-4 (0-1')	Total/NA	Solid	5035	
880-35382-2	S-4 (1.5')	Total/NA	Solid	5035	
880-35382-3	S-4 (2')	Total/NA	Solid	5035	
880-34990-A-6-A MB	Method Blank	Total/NA	Solid	5035	
LCS 880-66319/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66319/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5566-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-5566-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35382-1	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-35382-2	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-35382-3	S-4 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35382-1	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-35382-2	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-35382-3	S-4 (2')	Total/NA	Solid	8015NM Prep	
MB 880-66317/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66317/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66317/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5564-A-18-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5564-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35382-1	S-4 (0-1')	Total/NA	Solid	8015B NM	66317
880-35382-2	S-4 (1.5')	Total/NA	Solid	8015B NM	66317
880-35382-3	S-4 (2')	Total/NA	Solid	8015B NM	66317
MB 880-66317/1-A	Method Blank	Total/NA	Solid	8015B NM	66317
LCS 880-66317/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66317

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 66340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-66317/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66317
890-5564-A-18-B MS	Matrix Spike	Total/NA	Solid	8015B NM	66317
890-5564-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	66317

Analysis Batch: 66486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35382-1	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-35382-2	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-35382-3	S-4 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35382-1	S-4 (0-1')	Soluble	Solid	DI Leach	
880-35382-2	S-4 (1.5')	Soluble	Solid	DI Leach	
880-35382-3	S-4 (2')	Soluble	Solid	DI Leach	
MB 880-66462/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66462/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66462/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35345-A-37-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-35345-A-37-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 66742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35382-1	S-4 (0-1')	Soluble	Solid	300.0	66462
880-35382-2	S-4 (1.5')	Soluble	Solid	300.0	66462
880-35382-3	S-4 (2')	Soluble	Solid	300.0	66462
MB 880-66462/1-A	Method Blank	Soluble	Solid	300.0	66462
LCS 880-66462/2-A	Lab Control Sample	Soluble	Solid	300.0	66462
LCSD 880-66462/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66462
880-35345-A-37-C MS	Matrix Spike	Soluble	Solid	300.0	66462
880-35345-A-37-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	66462

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35382-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66319	11/06/23 17:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66231	11/08/23 06:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66524	11/08/23 06:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			66486	11/07/23 19:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	66317	11/07/23 08:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66340	11/07/23 19:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		1			66742	11/13/23 10:41	CH	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-35382-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66319	11/06/23 17:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66231	11/08/23 07:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66524	11/08/23 07:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			66486	11/07/23 19:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	66317	11/07/23 08:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66340	11/07/23 19:44	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		1			66742	11/13/23 10:46	CH	EET MID

Client Sample ID: S-4 (2')

Lab Sample ID: 880-35382-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66319	11/06/23 17:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66231	11/08/23 07:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66524	11/08/23 07:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			66486	11/07/23 20:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	66317	11/07/23 08:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66340	11/07/23 20:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		1			66742	11/13/23 10:52	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
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

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

Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
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: Southern Comfort 5 6 10 12

Job ID: 880-35382-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35382-1	S-4 (0-1')	Solid	11/03/23 00:00	11/06/23 15:52
880-35382-2	S-4 (1.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35382-3	S-4 (2')	Solid	11/03/23 00:00	11/06/23 15:52

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

[illegible]

MC



880-35382 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35382-1

SDG Number: Eddy County, New Mexico

Login Number: 35382

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 11/13/2023 11:53:14 AM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-35381-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
11/13/2023 11:53:14 AM

Authorized for release by
Jessica Kramer, Project Manager
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Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-35381-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

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/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

Job ID: 880-35381-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-35381-1**

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 11/6/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-5 (0-1') (880-35381-1), S-5 (1.5') (880-35381-2) and S-5 (2') (880-35381-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66262 and 880-66319 and analytical batch 880-66231 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-66317 and analytical batch 880-66340 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66340/20), (CCV 880-66340/31), (CCV 880-66340/5), (CCV 880-66340/57) and (CCV 880-66340/58). 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35381-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/06/23 17:07	11/08/23 05:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/06/23 17:07	11/08/23 05:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/06/23 17:07	11/08/23 05:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/06/23 17:07	11/08/23 05:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/06/23 17:07	11/08/23 05:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/06/23 17:07	11/08/23 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/06/23 17:07	11/08/23 05:43	1
1,4-Difluorobenzene (Surr)	116		70 - 130	11/06/23 17:07	11/08/23 05:43	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			11/08/23 05:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/07/23 18:20	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	<50.5	U	50.5		mg/Kg		11/07/23 08:34	11/07/23 18:20	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/07/23 08:34	11/07/23 18:20	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/07/23 08:34	11/07/23 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	11/07/23 08:34	11/07/23 18:20	1
o-Terphenyl	89		70 - 130	11/07/23 08:34	11/07/23 18:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	723		25.3		mg/Kg			11/11/23 20:39	5

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-35381-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/06/23 17:07	11/08/23 06:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 06:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 06:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/06/23 17:07	11/08/23 06:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 06:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/06/23 17:07	11/08/23 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	11/06/23 17:07	11/08/23 06:03	1
1,4-Difluorobenzene (Surr)	114		70 - 130	11/06/23 17:07	11/08/23 06:03	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-35381-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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			11/08/23 06:03	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			11/07/23 18:41	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		11/07/23 08:34	11/07/23 18:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/07/23 08:34	11/07/23 18:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/07/23 08:34	11/07/23 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				11/07/23 08:34	11/07/23 18:41	1
o-Terphenyl	90		70 - 130				11/07/23 08:34	11/07/23 18:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	408		24.8		mg/Kg			11/11/23 20:44	5

Client Sample ID: S-5 (2')

Lab Sample ID: 880-35381-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/06/23 17:07	11/08/23 06:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/06/23 17:07	11/08/23 06:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/06/23 17:07	11/08/23 06:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/06/23 17:07	11/08/23 06:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/06/23 17:07	11/08/23 06:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/06/23 17:07	11/08/23 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/06/23 17:07	11/08/23 06:24	1
1,4-Difluorobenzene (Surr)	118		70 - 130				11/06/23 17:07	11/08/23 06:24	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			11/08/23 06:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/07/23 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/07/23 08:34	11/07/23 19:02	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/07/23 08:34	11/07/23 19:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (2')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35381-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/07/23 08:34	11/07/23 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				11/07/23 08:34	11/07/23 19:02	1
o-Terphenyl	89		70 - 130				11/07/23 08:34	11/07/23 19:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		50.2		mg/Kg			11/11/23 21:01	10

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
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)
880-34990-A-6-A MB	Method Blank	89	114
880-35381-1	S-5 (0-1')	98	116
880-35381-2	S-5 (1.5')	90	114
880-35381-3	S-5 (2')	97	118
890-5566-A-1-C MS	Matrix Spike	100	107
890-5566-A-1-D MSD	Matrix Spike Duplicate	94	106
LCS 880-66319/1-A	Lab Control Sample	95	108
LCSD 880-66319/2-A	Lab Control Sample Dup	94	109
MB 880-66262/5-A	Method Blank	116	152 S1+
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)
880-35381-1	S-5 (0-1')	84	89
880-35381-2	S-5 (1.5')	87	90
880-35381-3	S-5 (2')	87	89
890-5564-A-18-B MS	Matrix Spike	95	86
890-5564-A-18-C MSD	Matrix Spike Duplicate	96	89
LCS 880-66317/2-A	Lab Control Sample	103	115
LCSD 880-66317/3-A	Lab Control Sample Dup	98	101
MB 880-66317/1-A	Method Blank	162 S1+	169 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66262/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66231							Prep Batch: 66262		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/06/23 11:29	11/07/23 12:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/06/23 11:29	11/07/23 12:04	1
1,4-Difluorobenzene (Surr)	152	S1+	70 - 130				11/06/23 11:29	11/07/23 12:04	1

Lab Sample ID: 880-34990-A-6-A MB							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66231							Prep Batch: 66319		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/06/23 17:07	11/08/23 05:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				11/06/23 17:07	11/08/23 05:22	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/06/23 17:07	11/08/23 05:22	1

Lab Sample ID: LCS 880-66319/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66231							Prep Batch: 66319		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1051		mg/Kg		105	70 - 130		
Toluene	0.100	0.09486		mg/Kg		95	70 - 130		
Ethylbenzene	0.100	0.08840		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene	0.200	0.2102		mg/Kg		105	70 - 130		
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	95		70 - 130						
1,4-Difluorobenzene (Surr)	108		70 - 130						

Lab Sample ID: LCSD 880-66319/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 66231							Prep Batch: 66319		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1032		mg/Kg		103	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-66319/2-A

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66319

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	
Toluene	0.100	0.09356			mg/Kg		94	70 - 130	1	35
Ethylbenzene	0.100	0.08388			mg/Kg		84	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1941			mg/Kg		97	70 - 130	8	35
o-Xylene	0.100	0.09487			mg/Kg		95	70 - 130	7	35
LCSD		LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	94		70 - 130							
1,4-Difluorobenzene (Surr)	109		70 - 130							

Lab Sample ID: 890-5566-A-1-C MS

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66319

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Benzene	<0.00199	U	0.0996	0.09646		mg/Kg		97	70 - 130	
Toluene	<0.00199	U	0.0996	0.07486		mg/Kg		75	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.07053		mg/Kg		71	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1634		mg/Kg		82	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.08304		mg/Kg		83	70 - 130	
MS		MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	100		70 - 130							
1,4-Difluorobenzene (Surr)	107		70 - 130							

Lab Sample ID: 890-5566-A-1-D MSD

Matrix: Solid

Analysis Batch: 66231

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66319

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Benzene	<0.00199	U	0.0990	0.09714		mg/Kg		98	70 - 130	1
Toluene	<0.00199	U	0.0990	0.08114		mg/Kg		82	70 - 130	8
Ethylbenzene	<0.00199	U	0.0990	0.07147		mg/Kg		72	70 - 130	1
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1705		mg/Kg		86	70 - 130	4
o-Xylene	<0.00199	U	0.0990	0.08622		mg/Kg		87	70 - 130	4
MSD		MSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	94		70 - 130							
1,4-Difluorobenzene (Surr)	106		70 - 130							

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

Lab Sample ID: MB 880-66317/1-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66317

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		11/06/23 16:35	11/07/23 08:58	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-66317/1-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66317

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/06/23 16:35	11/07/23 08:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/06/23 16:35	11/07/23 08:58	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	162	S1+	70 - 130				11/06/23 16:35	11/07/23 08:58	1
o-Terphenyl	169	S1+	70 - 130				11/06/23 16:35	11/07/23 08:58	1

Lab Sample ID: LCS 880-66317/2-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	924.3		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	115		70 - 130						

Lab Sample ID: LCSD 880-66317/3-A

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	932.7		mg/Kg		93	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130	4	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 890-5564-A-18-B MS

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66317

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	737.2		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	759.3		mg/Kg		74	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	95		70 - 130								
o-Terphenyl	86		70 - 130								

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-5564-A-18-C MSD

Matrix: Solid

Analysis Batch: 66340

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66317

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	<50.1	U	1010	744.9		mg/Kg		71	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	798.0		mg/Kg		77	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66462/1-A

Matrix: Solid

Analysis Batch: 66742

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			11/11/23 19:08	1

Lab Sample ID: LCS 880-66462/2-A

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-66462/3-A

Matrix: Solid

Analysis Batch: 66742

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	247.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-35381-2 MS

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: S-5 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	408		1240	1683		mg/Kg		103	90 - 110

Lab Sample ID: 880-35381-2 MSD

Matrix: Solid

Analysis Batch: 66742

Client Sample ID: S-5 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	408		1240	1685		mg/Kg		103	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 66231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35381-1	S-5 (0-1')	Total/NA	Solid	8021B	66319
880-35381-2	S-5 (1.5')	Total/NA	Solid	8021B	66319
880-35381-3	S-5 (2')	Total/NA	Solid	8021B	66319
880-34990-A-6-A MB	Method Blank	Total/NA	Solid	8021B	66319
MB 880-66262/5-A	Method Blank	Total/NA	Solid	8021B	66262
LCS 880-66319/1-A	Lab Control Sample	Total/NA	Solid	8021B	66319
LCSD 880-66319/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66319
890-5566-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	66319
890-5566-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66319

Prep Batch: 66262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66262/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 66319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35381-1	S-5 (0-1')	Total/NA	Solid	5035	
880-35381-2	S-5 (1.5')	Total/NA	Solid	5035	
880-35381-3	S-5 (2')	Total/NA	Solid	5035	
880-34990-A-6-A MB	Method Blank	Total/NA	Solid	5035	
LCS 880-66319/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66319/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5566-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-5566-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35381-1	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-35381-2	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-35381-3	S-5 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35381-1	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-35381-2	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-35381-3	S-5 (2')	Total/NA	Solid	8015NM Prep	
MB 880-66317/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66317/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66317/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5564-A-18-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5564-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35381-1	S-5 (0-1')	Total/NA	Solid	8015B NM	66317
880-35381-2	S-5 (1.5')	Total/NA	Solid	8015B NM	66317
880-35381-3	S-5 (2')	Total/NA	Solid	8015B NM	66317
MB 880-66317/1-A	Method Blank	Total/NA	Solid	8015B NM	66317
LCS 880-66317/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66317

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 66340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-66317/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66317
890-5564-A-18-B MS	Matrix Spike	Total/NA	Solid	8015B NM	66317
890-5564-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	66317

Analysis Batch: 66485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35381-1	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-35381-2	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-35381-3	S-5 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35381-1	S-5 (0-1')	Soluble	Solid	DI Leach	
880-35381-2	S-5 (1.5')	Soluble	Solid	DI Leach	
880-35381-3	S-5 (2')	Soluble	Solid	DI Leach	
MB 880-66462/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66462/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66462/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35381-2 MS	S-5 (1.5')	Soluble	Solid	DI Leach	
880-35381-2 MSD	S-5 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 66742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35381-1	S-5 (0-1')	Soluble	Solid	300.0	66462
880-35381-2	S-5 (1.5')	Soluble	Solid	300.0	66462
880-35381-3	S-5 (2')	Soluble	Solid	300.0	66462
MB 880-66462/1-A	Method Blank	Soluble	Solid	300.0	66462
LCS 880-66462/2-A	Lab Control Sample	Soluble	Solid	300.0	66462
LCSD 880-66462/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66462
880-35381-2 MS	S-5 (1.5')	Soluble	Solid	300.0	66462
880-35381-2 MSD	S-5 (1.5')	Soluble	Solid	300.0	66462

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35381-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66319	11/06/23 17:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66231	11/08/23 05:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66523	11/08/23 05:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			66485	11/07/23 18:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	66317	11/07/23 08:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66340	11/07/23 18:20	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		5			66742	11/11/23 20:39	CH	EET MID

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-35381-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66319	11/06/23 17:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66231	11/08/23 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66523	11/08/23 06:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			66485	11/07/23 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	66317	11/07/23 08:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66340	11/07/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		5			66742	11/11/23 20:44	CH	EET MID

Client Sample ID: S-5 (2')

Lab Sample ID: 880-35381-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66319	11/06/23 17:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66231	11/08/23 06:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66523	11/08/23 06:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			66485	11/07/23 19:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	66317	11/07/23 08:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66340	11/07/23 19:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66462	11/07/23 19:01	SMC	EET MID
Soluble	Analysis	300.0		10			66742	11/11/23 21:01	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
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

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

Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
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: Southern Comfort 5 6 10 12

Job ID: 880-35381-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35381-1	S-5 (0-1')	Solid	11/03/23 00:00	11/06/23 15:52
880-35381-2	S-5 (1.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35381-3	S-5 (2')	Solid	11/03/23 00:00	11/06/23 15:52

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- 11
- 12
- 13
- 14

Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name:	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	msanjari@marathonoil.com

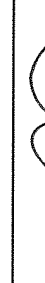
Work Order Comments	
Program, UST/PT ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

[illegible]

880-35381 Chain of Custody



Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt cmerritt@carmonaresources.com

Comments Email results to Mike Carmona mcarmona@carmonaresources.com , Conner Moehring cmoehring@carmonaresources.com , Clint Merritt cmerritt@carmonaresources.com			
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	11-0-23 1552		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35381-1

SDG Number: Eddy County, New Mexico

Login Number: 35381

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 11/14/2023 10:23:24 AM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
Eddy County, New Mexico

JOB NUMBER

880-35385-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
11/14/2023 10:23:24 AM

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

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

Job ID: 880-35385-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-35385-1**

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 11/6/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-35385-1), H-2 (0-0.5') (880-35385-2), H-3 (0-0.5') (880-35385-3), H-4 (0-0.5') (880-35385-4), H-5 (0-0.5') (880-35385-5), H-6 (0-0.5') (880-35385-6) and H-7 (0-0.5') (880-35385-7).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66374 and 880-66737 and analytical batch 880-66684 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-7 (0-0.5') (880-35385-7). 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.

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35385-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 15:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 15:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 15:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/07/23 13:38	11/11/23 15:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 15:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/07/23 13:38	11/11/23 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/07/23 13:38	11/11/23 15:49	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/07/23 13:38	11/11/23 15:49	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			11/11/23 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/14/23 05:22	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	<50.3	U	50.3		mg/Kg		11/10/23 13:12	11/14/23 05:22	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/10/23 13:12	11/14/23 05:22	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/10/23 13:12	11/14/23 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	11/10/23 13:12	11/14/23 05:22	1
o-Terphenyl	101		70 - 130	11/10/23 13:12	11/14/23 05:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.90		5.04		mg/Kg			11/13/23 08:14	1

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

Lab Sample ID: 880-35385-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 16:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 16:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 16:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 16:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 16:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/07/23 13:38	11/11/23 16:10	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/07/23 13:38	11/11/23 16:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35385-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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			11/11/23 16:10	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			11/14/23 05:45	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		11/10/23 13:12	11/14/23 05:45	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/10/23 13:12	11/14/23 05:45	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/10/23 13:12	11/14/23 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				11/10/23 13:12	11/14/23 05:45	1
o-Terphenyl	104		70 - 130				11/10/23 13:12	11/14/23 05:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			11/13/23 08:32	1

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

Lab Sample ID: 880-35385-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 18:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 18:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 18:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 18:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 18:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/07/23 13:38	11/11/23 18:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/07/23 13:38	11/11/23 18:00	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			11/11/23 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/14/23 06:07	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	<50.4	U	50.4		mg/Kg		11/10/23 13:12	11/14/23 06:07	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/10/23 13:12	11/14/23 06:07	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35385-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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)	<50.4	U	50.4		mg/Kg		11/10/23 13:12	11/14/23 06:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/10/23 13:12	11/14/23 06:07	1
o-Terphenyl	97		70 - 130				11/10/23 13:12	11/14/23 06:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.3		4.95		mg/Kg			11/13/23 08:37	1

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

Lab Sample ID: 880-35385-4

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 18:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 18:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 18:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/07/23 13:38	11/11/23 18:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 18:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/07/23 13:38	11/11/23 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/07/23 13:38	11/11/23 18:21	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/07/23 13:38	11/11/23 18:21	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			11/11/23 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/14/23 06:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/10/23 13:12	11/14/23 06:30	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/10/23 13:12	11/14/23 06:30	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/10/23 13:12	11/14/23 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/10/23 13:12	11/14/23 06:30	1
o-Terphenyl	94		70 - 130				11/10/23 13:12	11/14/23 06:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/13/23 08:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-35385-5

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 18:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/07/23 13:38	11/11/23 18:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/07/23 13:38	11/11/23 18:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/07/23 13:38	11/11/23 18:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/07/23 13:38	11/11/23 18:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/07/23 13:38	11/11/23 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/07/23 13:38	11/11/23 18:41	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/07/23 13:38	11/11/23 18:41	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			11/11/23 18:41	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			11/14/23 06:53	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		11/10/23 13:12	11/14/23 06:53	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/10/23 13:12	11/14/23 06:53	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/10/23 13:12	11/14/23 06:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/10/23 13:12	11/14/23 06:53	1
o-Terphenyl	101		70 - 130				11/10/23 13:12	11/14/23 06:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.0		5.04		mg/Kg			11/13/23 08:48	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-35385-6

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 19:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 19:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 19:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 19:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/23 13:38	11/11/23 19:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/23 13:38	11/11/23 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/07/23 13:38	11/11/23 19:02	1
1,4-Difluorobenzene (Surr)	105		70 - 130				11/07/23 13:38	11/11/23 19:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-35385-6

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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			11/11/23 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/14/23 07:15	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	<49.6	U	49.6		mg/Kg		11/10/23 13:12	11/14/23 07:15	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/10/23 13:12	11/14/23 07:15	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/10/23 13:12	11/14/23 07:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/10/23 13:12	11/14/23 07:15	1
o-Terphenyl	98		70 - 130				11/10/23 13:12	11/14/23 07:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		4.97		mg/Kg			11/13/23 08:54	1

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-35385-7

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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		11/07/23 13:38	11/11/23 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 19:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/07/23 13:38	11/11/23 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 19:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/07/23 13:38	11/11/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				11/07/23 13:38	11/11/23 19:22	1
1,4-Difluorobenzene (Surr)	112		70 - 130				11/07/23 13:38	11/11/23 19:22	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			11/11/23 19:22	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			11/14/23 07:38	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		11/10/23 13:12	11/14/23 07:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/23 13:12	11/14/23 07:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

Client Sample ID: H-7 (0-0.5')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35385-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/23 13:12	11/14/23 07:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				11/10/23 13:12	11/14/23 07:38	1
o-Terphenyl	117		70 - 130				11/10/23 13:12	11/14/23 07:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		5.01		mg/Kg			11/13/23 09:00	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
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)
880-35383-A-1-A MS	Matrix Spike	111	104
880-35383-A-1-B MSD	Matrix Spike Duplicate	107	106
880-35385-1	H-1 (0-0.5')	111	111
880-35385-2	H-2 (0-0.5')	101	110
880-35385-3	H-3 (0-0.5')	88	104
880-35385-4	H-4 (0-0.5')	102	108
880-35385-5	H-5 (0-0.5')	102	108
880-35385-6	H-6 (0-0.5')	99	105
880-35385-7	H-7 (0-0.5')	103	112
LCS 880-66374/1-A	Lab Control Sample	94	109
LCSD 880-66374/2-A	Lab Control Sample Dup	105	105
MB 880-66374/5-A	Method Blank	112	148 S1+
MB 880-66737/5-A	Method Blank	111	140 S1+
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)
880-35345-A-31-D MS	Matrix Spike	113	95
880-35345-A-31-E MSD	Matrix Spike Duplicate	109	94
880-35385-1	H-1 (0-0.5')	109	101
880-35385-2	H-2 (0-0.5')	112	104
880-35385-3	H-3 (0-0.5')	107	97
880-35385-4	H-4 (0-0.5')	103	94
880-35385-5	H-5 (0-0.5')	108	101
880-35385-6	H-6 (0-0.5')	110	98
880-35385-7	H-7 (0-0.5')	132 S1+	117
LCS 880-66712/2-A	Lab Control Sample	85	90
LCSD 880-66712/3-A	Lab Control Sample Dup	89	107
MB 880-66712/1-A	Method Blank	129	123
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66374/5-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/23 13:38	11/11/23 12:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/07/23 13:38	11/11/23 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/07/23 13:38	11/11/23 12:36	1
1,4-Difluorobenzene (Surr)	148	S1+	70 - 130	11/07/23 13:38	11/11/23 12:36	1

Lab Sample ID: LCS 880-66374/1-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1210		mg/Kg		121	70 - 130
Toluene	0.100	0.09759		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09011		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-66374/2-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1181		mg/Kg		118	70 - 130	2	35
Toluene	0.100	0.09679		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.09554		mg/Kg		96	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2185		mg/Kg		109	70 - 130	7	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	5	35

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

Lab Sample ID: 880-35383-A-1-A MS

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09797		mg/Kg		98	70 - 130
Toluene	<0.00199	U	0.0996	0.08425		mg/Kg		85	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35383-A-1-A MS

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.07323		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1788		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08545		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-35383-A-1-B MSD

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66374

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1024		mg/Kg		103	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.08336		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0990	0.07097		mg/Kg		72	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1681		mg/Kg		85	70 - 130	6	35
o-Xylene	<0.00199	U	0.0990	0.08061		mg/Kg		81	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-66737/5-A

Matrix: Solid

Analysis Batch: 66684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 14:57	11/11/23 00:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/23 14:57	11/11/23 00:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/10/23 14:57	11/11/23 00:58	1
1,4-Difluorobenzene (Surr)	140	S1+	70 - 130	11/10/23 14:57	11/11/23 00:58	1

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

Lab Sample ID: MB 880-66712/1-A

Matrix: Solid

Analysis Batch: 66799

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66712

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		11/10/23 13:12	11/13/23 22:12	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-66712/1-A

Matrix: Solid

Analysis Batch: 66799

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66712

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/23 13:12	11/13/23 22:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/23 13:12	11/13/23 22:12	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	129		70 - 130				11/10/23 13:12	11/13/23 22:12	1
o-Terphenyl	123		70 - 130				11/10/23 13:12	11/13/23 22:12	1

Lab Sample ID: LCS 880-66712/2-A

Matrix: Solid

Analysis Batch: 66799

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	913.7		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	983.1		mg/Kg		98	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	85		70 - 130						
o-Terphenyl	90		70 - 130						

Lab Sample ID: LCSD 880-66712/3-A

Matrix: Solid

Analysis Batch: 66799

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66712

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	883.2		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	990.4		mg/Kg		99	70 - 130	1	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	107		70 - 130						

Lab Sample ID: 880-35345-A-31-D MS

Matrix: Solid

Analysis Batch: 66799

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66712

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1269		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1244		mg/Kg		121	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	113		70 - 130								
o-Terphenyl	95		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35345-A-31-E MSD

Matrix: Solid

Analysis Batch: 66799

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66712

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	<49.6	U	1010	1208		mg/Kg		117	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1245		mg/Kg		122	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	94		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66463/1-A

Matrix: Solid

Analysis Batch: 66743

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			11/11/23 22:26	1

Lab Sample ID: LCS 880-66463/2-A

Matrix: Solid

Analysis Batch: 66743

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-66463/3-A

Matrix: Solid

Analysis Batch: 66743

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	248.0		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-35385-7 MS

Matrix: Solid

Analysis Batch: 66743

Client Sample ID: H-7 (0-0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	239		251	481.1		mg/Kg		97	90 - 110

Lab Sample ID: 880-35385-7 MSD

Matrix: Solid

Analysis Batch: 66743

Client Sample ID: H-7 (0-0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	239		251	479.6		mg/Kg		96	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 66374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-35385-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-35385-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-35385-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-35385-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-35385-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-35385-7	H-7 (0-0.5')	Total/NA	Solid	5035	
MB 880-66374/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66374/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66374/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35383-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-35383-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-1	H-1 (0-0.5')	Total/NA	Solid	8021B	66374
880-35385-2	H-2 (0-0.5')	Total/NA	Solid	8021B	66374
880-35385-3	H-3 (0-0.5')	Total/NA	Solid	8021B	66374
880-35385-4	H-4 (0-0.5')	Total/NA	Solid	8021B	66374
880-35385-5	H-5 (0-0.5')	Total/NA	Solid	8021B	66374
880-35385-6	H-6 (0-0.5')	Total/NA	Solid	8021B	66374
880-35385-7	H-7 (0-0.5')	Total/NA	Solid	8021B	66374
MB 880-66374/5-A	Method Blank	Total/NA	Solid	8021B	66374
MB 880-66737/5-A	Method Blank	Total/NA	Solid	8021B	66737
LCS 880-66374/1-A	Lab Control Sample	Total/NA	Solid	8021B	66374
LCSD 880-66374/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66374
880-35383-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	66374
880-35383-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66374

Prep Batch: 66737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66737/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 66869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35385-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35385-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35385-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35385-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35385-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35385-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-35385-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-35385-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-35385-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 66712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-35385-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-35385-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-66712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35345-A-31-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-35345-A-31-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	66712
880-35385-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	66712
880-35385-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	66712
880-35385-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	66712
880-35385-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	66712
880-35385-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	66712
880-35385-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	66712
MB 880-66712/1-A	Method Blank	Total/NA	Solid	8015B NM	66712
LCS 880-66712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66712
LCSD 880-66712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66712
880-35345-A-31-D MS	Matrix Spike	Total/NA	Solid	8015B NM	66712
880-35345-A-31-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	66712

Analysis Batch: 66971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-35385-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-35385-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-35385-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-35385-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-35385-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-35385-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-35385-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-35385-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-35385-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-35385-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-35385-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-35385-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-66463/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66463/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66463/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35385-7 MS	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-35385-7 MSD	H-7 (0-0.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 66743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35385-1	H-1 (0-0.5')	Soluble	Solid	300.0	66463
880-35385-2	H-2 (0-0.5')	Soluble	Solid	300.0	66463
880-35385-3	H-3 (0-0.5')	Soluble	Solid	300.0	66463
880-35385-4	H-4 (0-0.5')	Soluble	Solid	300.0	66463
880-35385-5	H-5 (0-0.5')	Soluble	Solid	300.0	66463
880-35385-6	H-6 (0-0.5')	Soluble	Solid	300.0	66463
880-35385-7	H-7 (0-0.5')	Soluble	Solid	300.0	66463
MB 880-66463/1-A	Method Blank	Soluble	Solid	300.0	66463
LCS 880-66463/2-A	Lab Control Sample	Soluble	Solid	300.0	66463
LCSD 880-66463/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66463
880-35385-7 MS	H-7 (0-0.5')	Soluble	Solid	300.0	66463
880-35385-7 MSD	H-7 (0-0.5')	Soluble	Solid	300.0	66463

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35385-1

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66869	11/11/23 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			66971	11/14/23 05:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	66712	11/10/23 13:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66799	11/14/23 05:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			66743	11/13/23 08:14	CH	EET MID

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

Lab Sample ID: 880-35385-2

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 16:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66869	11/11/23 16:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			66971	11/14/23 05:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	66712	11/10/23 13:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66799	11/14/23 05:45	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			66743	11/13/23 08:32	CH	EET MID

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

Lab Sample ID: 880-35385-3

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66869	11/11/23 18:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			66971	11/14/23 06:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	66712	11/10/23 13:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66799	11/14/23 06:07	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			66743	11/13/23 08:37	CH	EET MID

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

Lab Sample ID: 880-35385-4

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66869	11/11/23 18:21	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35385-4

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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			66971	11/14/23 06:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	66712	11/10/23 13:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66799	11/14/23 06:30	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			66743	11/13/23 08:43	CH	EET MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-35385-5

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66869	11/11/23 18:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			66971	11/14/23 06:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	66712	11/10/23 13:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66799	11/14/23 06:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			66743	11/13/23 08:48	CH	EET MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-35385-6

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66869	11/11/23 19:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			66971	11/14/23 07:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	66712	11/10/23 13:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66799	11/14/23 07:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			66743	11/13/23 08:54	CH	EET MID

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-35385-7

Date Collected: 11/03/23 00:00

Matrix: Solid

Date Received: 11/06/23 15:52

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	66374	11/07/23 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66684	11/11/23 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66869	11/11/23 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			66971	11/14/23 07:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	66712	11/10/23 13:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66799	11/14/23 07:38	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

Client Sample ID: H-7 (0-0.5')
Date Collected: 11/03/23 00:00
Date Received: 11/06/23 15:52

Lab Sample ID: 880-35385-7
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			4.99 g	50 mL	66463	11/07/23 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			66743	11/13/23 09:00	CH	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: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
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

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Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
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: Southern Comfort 5 6 10 12

Job ID: 880-35385-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35385-1	H-1 (0-0.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35385-2	H-2 (0-0.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35385-3	H-3 (0-0.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35385-4	H-4 (0-0.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35385-5	H-5 (0-0.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35385-6	H-6 (0-0.5')	Solid	11/03/23 00:00	11/06/23 15:52
880-35385-7	H-7 (0-0.5')	Solid	11/03/23 00:00	11/06/23 15:52

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W



880-35385 Chain of Custody

Page 1 of 1

Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	msanjari@marathonoil.com

Project Name	Southern Comfort 5 6 10 12		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number	2173	☒ Routine ☐ Rush	Due Date	5 day														None NO	DI Water H ₂ O				
Project Location	Eddy County New Mexico																	Cool Cool	MeOH Me				
Sampler's Name	CCM																	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	Correction Factor													Na ₂ S ₂ O ₃ NaSO ₃						
Sample Custody Seals		Yes	No	Temperature Reading													Zn Acetate+NaOH Zn						
Total Containers				Corrected Temperature													NaOH+Ascorbic Acid SAPC						
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments				
H-1 (0-0 5')	11/3/2023		X		G	1	X	X	X														
H-2 (0-0 5')	11/3/2023		X		G	1	X	X	X														
H-3 (0-0 5')	11/3/2023		X		G	1	X	X	X														
H-4 (0-0 5')	11/3/2023		X		G	1	X	X	X														
H-5 (0-0 5')	11/3/2023		X		G	1	X	X	X														
H-6 (0-0 5')	11/3/2023		X		G	1	X	X	X														
H-7 (0-0 5')	11/3/2023		X		G	1	X	X	X														

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt merrittc@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	11-10-23 1552		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35385-1

SDG Number: Eddy County, New Mexico

Login Number: 35385

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 11/29/2023 3:29:50 PM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
Eddy County, New Mexico

JOB NUMBER

880-36057-1

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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11/29/2023 3:29:50 PM

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

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-36057-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Job ID: 880-36057-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-36057-1**

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 11/21/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.1°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67812 and analytical batch 880-67810 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67812 and analytical batch 880-67810 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-1 (1.5') (880-36057-2), BH-1 (3') (880-36057-4) and BH-1 (4') (880-36057-5). 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 880-67795 and analytical batch 880-67801 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-1 (0-1') (880-36057-1), BH-1 (1.5') (880-36057-2), BH-1 (2') (880-36057-3), BH-1 (3') (880-36057-4), BH-1 (4') (880-36057-5), BH-1 (5') (880-36057-6), (890-5662-A-21-C), (890-5662-A-21-D MS) and (890-5662-A-21-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-67795 and analytical batch 880-67801 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36057-1

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/28/23 08:46	11/28/23 12:57	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		11/28/23 08:46	11/28/23 12:57	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		11/28/23 08:46	11/28/23 12:57	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		11/28/23 08:46	11/28/23 12:57	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		11/28/23 08:46	11/28/23 12:57	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		11/28/23 08:46	11/28/23 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	11/28/23 08:46	11/28/23 12:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/28/23 08:46	11/28/23 12:57	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			11/28/23 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.3		49.7		mg/Kg			11/28/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/27/23 17:59	11/28/23 13:36	1
Diesel Range Organics (Over C10-C28)	59.3		49.7		mg/Kg		11/27/23 17:59	11/28/23 13:36	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 17:59	11/28/23 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130	11/27/23 17:59	11/28/23 13:36	1
o-Terphenyl	132	S1+	70 - 130	11/27/23 17:59	11/28/23 13:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2140		50.5		mg/Kg			11/29/23 14:39	10

Client Sample ID: BH-1 (1.5')

Lab Sample ID: 880-36057-2

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 13:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/28/23 08:46	11/28/23 13:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 13:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/28/23 08:46	11/28/23 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	11/28/23 08:46	11/28/23 13:17	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	11/28/23 08:46	11/28/23 13:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (1.5')

Lab Sample ID: 880-36057-2

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/28/23 13:17	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			11/28/23 13:59	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	<50.0	U	50.0		mg/Kg		11/27/23 17:59	11/28/23 13:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 17:59	11/28/23 13:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 17:59	11/28/23 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				11/27/23 17:59	11/28/23 13:59	1
o-Terphenyl	135	S1+	70 - 130				11/27/23 17:59	11/28/23 13:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	769		50.2		mg/Kg			11/29/23 14:44	10

Client Sample ID: BH-1 (2')

Lab Sample ID: 880-36057-3

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 13:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 13:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 13:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/28/23 08:46	11/28/23 13:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 13:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/28/23 08:46	11/28/23 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/28/23 08:46	11/28/23 13:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/28/23 08:46	11/28/23 13:38	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			11/28/23 13:38	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			11/28/23 14:21	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	<49.7	U	49.7		mg/Kg		11/27/23 17:59	11/28/23 14:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/27/23 17:59	11/28/23 14:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (2')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-3
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)	<49.7	U	49.7		mg/Kg		11/27/23 17:59	11/28/23 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	172	S1+	70 - 130				11/27/23 17:59	11/28/23 14:21	1
o-Terphenyl	154	S1+	70 - 130				11/27/23 17:59	11/28/23 14:21	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		5.05		mg/Kg			11/29/23 14:50	1

Client Sample ID: BH-1 (3')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-4
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		11/28/23 08:46	11/28/23 13:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/28/23 08:46	11/28/23 13:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/28/23 08:46	11/28/23 13:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/28/23 08:46	11/28/23 13:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/28/23 08:46	11/28/23 13:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/28/23 08:46	11/28/23 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/28/23 08:46	11/28/23 13:58	1
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130				11/28/23 08:46	11/28/23 13:58	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			11/28/23 13:58	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			11/28/23 14:43	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		11/27/23 17:59	11/28/23 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 17:59	11/28/23 14:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 17:59	11/28/23 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130				11/27/23 17:59	11/28/23 14:43	1
o-Terphenyl	148	S1+	70 - 130				11/27/23 17:59	11/28/23 14:43	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		5.02		mg/Kg			11/29/23 14:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (4')

Lab Sample ID: 880-36057-5

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/28/23 08:46	11/28/23 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/28/23 08:46	11/28/23 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/28/23 08:46	11/28/23 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/28/23 08:46	11/28/23 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/28/23 08:46	11/28/23 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/28/23 08:46	11/28/23 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	11/28/23 08:46	11/28/23 14:19	1
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130	11/28/23 08:46	11/28/23 14:19	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			11/28/23 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/28/23 15:27	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	<50.3	U	50.3		mg/Kg		11/27/23 17:59	11/28/23 15:27	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 17:59	11/28/23 15:27	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 17:59	11/28/23 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	11/27/23 17:59	11/28/23 15:27	1
o-Terphenyl	136	S1+	70 - 130	11/27/23 17:59	11/28/23 15:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		5.00		mg/Kg			11/29/23 15:01	1

Client Sample ID: BH-1 (5')

Lab Sample ID: 880-36057-6

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 14:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/28/23 08:46	11/28/23 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 14:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/28/23 08:46	11/28/23 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/28/23 08:46	11/28/23 14:39	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/28/23 08:46	11/28/23 14:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (5')

Lab Sample ID: 880-36057-6

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/28/23 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/28/23 16:01	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	<50.5	U	50.5		mg/Kg		11/27/23 17:59	11/28/23 16:01	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 17:59	11/28/23 16:01	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 17:59	11/28/23 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130	11/27/23 17:59	11/28/23 16:01	1
o-Terphenyl	148	S1+	70 - 130	11/27/23 17:59	11/28/23 16:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		4.95		mg/Kg			11/29/23 15:07	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
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)
880-36057-1	BH-1 (0-1')	82	102
880-36057-1 MS	BH-1 (0-1')	96	103
880-36057-1 MSD	BH-1 (0-1')	225 S1+	107
880-36057-2	BH-1 (1.5')	154 S1+	131 S1+
880-36057-3	BH-1 (2')	96	108
880-36057-4	BH-1 (3')	114	139 S1+
880-36057-5	BH-1 (4')	119	137 S1+
880-36057-6	BH-1 (5')	107	112
LCS 880-67812/1-A	Lab Control Sample	97	103
LCSD 880-67812/2-A	Lab Control Sample Dup	101	105
MB 880-67812/5-A	Method Blank	113	142 S1+
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)
880-36057-1	BH-1 (0-1')	146 S1+	132 S1+
880-36057-2	BH-1 (1.5')	148 S1+	135 S1+
880-36057-3	BH-1 (2')	172 S1+	154 S1+
880-36057-4	BH-1 (3')	165 S1+	148 S1+
880-36057-5	BH-1 (4')	148 S1+	136 S1+
880-36057-6	BH-1 (5')	165 S1+	148 S1+
890-5662-A-21-D MS	Matrix Spike	140 S1+	113
890-5662-A-21-E MSD	Matrix Spike Duplicate	163 S1+	130
LCS 880-67795/2-A	Lab Control Sample	84	86
LCSD 880-67795/3-A	Lab Control Sample Dup	94	102
MB 880-67795/1-A	Method Blank	172 S1+	163 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67812/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 67810							Prep Batch: 67812		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 12:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 12:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 12:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/28/23 08:46	11/28/23 12:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 08:46	11/28/23 12:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/28/23 08:46	11/28/23 12:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				11/28/23 08:46	11/28/23 12:25	1
1,4-Difluorobenzene (Surr)	142	S1+	70 - 130				11/28/23 08:46	11/28/23 12:25	1

Lab Sample ID: LCS 880-67812/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 67810							Prep Batch: 67812		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1004		mg/Kg		100	70 - 130	
Toluene		0.100	0.08846		mg/Kg		88	70 - 130	
Ethylbenzene		0.100	0.08537		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene		0.200	0.1866		mg/Kg		93	70 - 130	
o-Xylene		0.100	0.09086		mg/Kg		91	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: LCSD 880-67812/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 67810							Prep Batch: 67812			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.09698		mg/Kg		97	70 - 130	3	35
Toluene		0.100	0.08171		mg/Kg		82	70 - 130	8	35
Ethylbenzene		0.100	0.08448		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene		0.200	0.1902		mg/Kg		95	70 - 130	2	35
o-Xylene		0.100	0.09287		mg/Kg		93	70 - 130	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	101		70 - 130							
1,4-Difluorobenzene (Surr)	105		70 - 130							

Lab Sample ID: 880-36057-1 MS							Client Sample ID: BH-1 (0-1')		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 67810							Prep Batch: 67812		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08224		mg/Kg		83	70 - 130
Toluene	<0.00199	U F2 F1	0.0996	0.07286		mg/Kg		73	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36057-1 MS

Matrix: Solid

Analysis Batch: 67810

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

Prep Type: Total/NA

Prep Batch: 67812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0996	0.06841	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1580		mg/Kg		79	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.07721		mg/Kg		78	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	96		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 880-36057-1 MSD

Matrix: Solid

Analysis Batch: 67810

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

Prep Type: Total/NA

Prep Batch: 67812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1054		mg/Kg		106	70 - 130	25	35
Toluene	<0.00199	U F2 F1	0.0990	0.04491	F2 F1	mg/Kg		45	70 - 130	47	35
Ethylbenzene	<0.00199	U F1	0.0990	0.08820		mg/Kg		89	70 - 130	25	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.3222	F1 F2	mg/Kg		163	70 - 130	68	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.1714	F1 F2	mg/Kg		173	70 - 130	76	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	225	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								

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

Lab Sample ID: MB 880-67795/1-A

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67795

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		11/27/23 17:59	11/28/23 08:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 17:59	11/28/23 08:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 17:59	11/28/23 08:05	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	172	S1+	70 - 130				11/27/23 17:59	11/28/23 08:05	1
o-Terphenyl	163	S1+	70 - 130				11/27/23 17:59	11/28/23 08:05	1

Lab Sample ID: LCS 880-67795/2-A

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1062		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-67795/2-A

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67795

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-67795/3-A

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67795

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1038		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1006		mg/Kg		101	70 - 130	3	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	102		70 - 130								

Lab Sample ID: 890-5662-A-21-D MS

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 67795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	991	906.3		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	991	1265		mg/Kg		125	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	140	S1+	70 - 130								
o-Terphenyl	113		70 - 130								

Lab Sample ID: 890-5662-A-21-E MSD

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 67795

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	<49.9	U	991	1088		mg/Kg		107	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	991	1478	F1	mg/Kg		147	70 - 130	16	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	163	S1+	70 - 130								
o-Terphenyl	130		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67760/1-A

Matrix: Solid

Analysis Batch: 67822

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			11/29/23 10:35	1

Lab Sample ID: LCS 880-67760/2-A

Matrix: Solid

Analysis Batch: 67822

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.7		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-67760/3-A

Matrix: Solid

Analysis Batch: 67822

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	263.9		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-36055-A-1-C MS

Matrix: Solid

Analysis Batch: 67822

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	91.2		252	362.0		mg/Kg		107	90 - 110

Lab Sample ID: 880-36055-A-1-D MSD

Matrix: Solid

Analysis Batch: 67822

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	91.2		252	361.0		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 67810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36057-1	BH-1 (0-1')	Total/NA	Solid	8021B	67812
880-36057-2	BH-1 (1.5')	Total/NA	Solid	8021B	67812
880-36057-3	BH-1 (2')	Total/NA	Solid	8021B	67812
880-36057-4	BH-1 (3')	Total/NA	Solid	8021B	67812
880-36057-5	BH-1 (4')	Total/NA	Solid	8021B	67812
880-36057-6	BH-1 (5')	Total/NA	Solid	8021B	67812
MB 880-67812/5-A	Method Blank	Total/NA	Solid	8021B	67812
LCS 880-67812/1-A	Lab Control Sample	Total/NA	Solid	8021B	67812
LCSD 880-67812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67812
880-36057-1 MS	BH-1 (0-1')	Total/NA	Solid	8021B	67812
880-36057-1 MSD	BH-1 (0-1')	Total/NA	Solid	8021B	67812

Prep Batch: 67812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36057-1	BH-1 (0-1')	Total/NA	Solid	5035	
880-36057-2	BH-1 (1.5')	Total/NA	Solid	5035	
880-36057-3	BH-1 (2')	Total/NA	Solid	5035	
880-36057-4	BH-1 (3')	Total/NA	Solid	5035	
880-36057-5	BH-1 (4')	Total/NA	Solid	5035	
880-36057-6	BH-1 (5')	Total/NA	Solid	5035	
MB 880-67812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36057-1 MS	BH-1 (0-1')	Total/NA	Solid	5035	
880-36057-1 MSD	BH-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 67953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36057-1	BH-1 (0-1')	Total/NA	Solid	Total BTEX	
880-36057-2	BH-1 (1.5')	Total/NA	Solid	Total BTEX	
880-36057-3	BH-1 (2')	Total/NA	Solid	Total BTEX	
880-36057-4	BH-1 (3')	Total/NA	Solid	Total BTEX	
880-36057-5	BH-1 (4')	Total/NA	Solid	Total BTEX	
880-36057-6	BH-1 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 67795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36057-1	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-36057-2	BH-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-36057-3	BH-1 (2')	Total/NA	Solid	8015NM Prep	
880-36057-4	BH-1 (3')	Total/NA	Solid	8015NM Prep	
880-36057-5	BH-1 (4')	Total/NA	Solid	8015NM Prep	
880-36057-6	BH-1 (5')	Total/NA	Solid	8015NM Prep	
MB 880-67795/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67795/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5662-A-21-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5662-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 67801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36057-1	BH-1 (0-1')	Total/NA	Solid	8015B NM	67795
880-36057-2	BH-1 (1.5')	Total/NA	Solid	8015B NM	67795
880-36057-3	BH-1 (2')	Total/NA	Solid	8015B NM	67795
880-36057-4	BH-1 (3')	Total/NA	Solid	8015B NM	67795
880-36057-5	BH-1 (4')	Total/NA	Solid	8015B NM	67795
880-36057-6	BH-1 (5')	Total/NA	Solid	8015B NM	67795
MB 880-67795/1-A	Method Blank	Total/NA	Solid	8015B NM	67795
LCS 880-67795/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67795
LCSD 880-67795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67795
890-5662-A-21-D MS	Matrix Spike	Total/NA	Solid	8015B NM	67795
890-5662-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	67795

Analysis Batch: 67935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36057-1	BH-1 (0-1')	Total/NA	Solid	8015 NM	
880-36057-2	BH-1 (1.5')	Total/NA	Solid	8015 NM	
880-36057-3	BH-1 (2')	Total/NA	Solid	8015 NM	
880-36057-4	BH-1 (3')	Total/NA	Solid	8015 NM	
880-36057-5	BH-1 (4')	Total/NA	Solid	8015 NM	
880-36057-6	BH-1 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 67760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36057-1	BH-1 (0-1')	Soluble	Solid	DI Leach	
880-36057-2	BH-1 (1.5')	Soluble	Solid	DI Leach	
880-36057-3	BH-1 (2')	Soluble	Solid	DI Leach	
880-36057-4	BH-1 (3')	Soluble	Solid	DI Leach	
880-36057-5	BH-1 (4')	Soluble	Solid	DI Leach	
880-36057-6	BH-1 (5')	Soluble	Solid	DI Leach	
MB 880-67760/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67760/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67760/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36055-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-36055-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 67822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36057-1	BH-1 (0-1')	Soluble	Solid	300.0	67760
880-36057-2	BH-1 (1.5')	Soluble	Solid	300.0	67760
880-36057-3	BH-1 (2')	Soluble	Solid	300.0	67760
880-36057-4	BH-1 (3')	Soluble	Solid	300.0	67760
880-36057-5	BH-1 (4')	Soluble	Solid	300.0	67760
880-36057-6	BH-1 (5')	Soluble	Solid	300.0	67760
MB 880-67760/1-A	Method Blank	Soluble	Solid	300.0	67760
LCS 880-67760/2-A	Lab Control Sample	Soluble	Solid	300.0	67760
LCSD 880-67760/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67760
880-36055-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	67760
880-36055-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	67760

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (0-1')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-1
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			5.03 g	5 mL	67812	11/28/23 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67810	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67953	11/28/23 12:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			67935	11/28/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 13:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67760	11/27/23 14:31	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67822	11/29/23 14:39	CH	EET MID

Client Sample ID: BH-1 (1.5')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-2
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			5.01 g	5 mL	67812	11/28/23 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67810	11/28/23 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67953	11/28/23 13:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			67935	11/28/23 13:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 13:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67760	11/27/23 14:31	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67822	11/29/23 14:44	CH	EET MID

Client Sample ID: BH-1 (2')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-3
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	67812	11/28/23 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67810	11/28/23 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67953	11/28/23 13:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			67935	11/28/23 14:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 14:21	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67760	11/27/23 14:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67822	11/29/23 14:50	CH	EET MID

Client Sample ID: BH-1 (3')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-4
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			5.02 g	5 mL	67812	11/28/23 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67810	11/28/23 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67953	11/28/23 13:58	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (3')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-4
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			67935	11/28/23 14:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 14:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67760	11/27/23 14:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67822	11/29/23 14:56	CH	EET MID

Client Sample ID: BH-1 (4')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-5
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			5.03 g	5 mL	67812	11/28/23 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67810	11/28/23 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67953	11/28/23 14:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			67935	11/28/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 15:27	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67760	11/27/23 14:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67822	11/29/23 15:01	CH	EET MID

Client Sample ID: BH-1 (5')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36057-6
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			5.01 g	5 mL	67812	11/28/23 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67810	11/28/23 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67953	11/28/23 14:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			67935	11/28/23 16:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 16:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67760	11/27/23 14:31	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67822	11/29/23 15:07	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: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
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

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Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
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: Southern Comfort 5 6 10 12

Job ID: 880-36057-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36057-1	BH-1 (0-1')	Solid	11/20/23 00:00	11/21/23 10:01
880-36057-2	BH-1 (1.5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36057-3	BH-1 (2')	Solid	11/20/23 00:00	11/21/23 10:01
880-36057-4	BH-1 (3')	Solid	11/20/23 00:00	11/21/23 10:01
880-36057-5	BH-1 (4')	Solid	11/20/23 00:00	11/21/23 10:01
880-36057-6	BH-1 (5')	Solid	11/20/23 00:00	11/21/23 10:01

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Project Manager	Clinton Merritt	Bill to (if different)	Melodie Samari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City State ZIP	Houston, TX 77024
Phone		Email	msamari@marathonoil.com

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

[illegible]

880-36057 Chain of Custody



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Page 1 of 1

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)

Date/Time

Received by (Signature)

Date/Time

Theresa Hunt

11-21-22

100

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-36057-1

SDG Number: Eddy County, New Mexico

Login Number: 36057

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 11/30/2023 2:40:46 PM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
Eddy County, New Mexico

JOB NUMBER

880-36058-1

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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11/30/2023 2:40:46 PM

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

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-36058-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Job ID: 880-36058-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-36058-1**

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 11/21/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH-2 (0-1') (880-36058-1), BH-2 (1.5') (880-36058-2), BH-2 (2') (880-36058-3), BH-2 (3') (880-36058-4), BH-2 (4') (880-36058-5), BH-2 (5') (880-36058-6) and BH-2 (6') (880-36058-7).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67901 and analytical batch 880-67897 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-2 (1.5') (880-36058-2) and BH-2 (6') (880-36058-7). 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

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36058-1

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 16:56	1
Toluene	0.00237		0.00199		mg/Kg		11/29/23 09:09	11/29/23 16:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 16:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/29/23 09:09	11/29/23 16:56	1
o-Xylene	0.00704		0.00199		mg/Kg		11/29/23 09:09	11/29/23 16:56	1
Xylenes, Total	0.00704		0.00398		mg/Kg		11/29/23 09:09	11/29/23 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	11/29/23 09:09	11/29/23 16:56	1
1,4-Difluorobenzene (Surr)	83		70 - 130	11/29/23 09:09	11/29/23 16:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00941		0.00398		mg/Kg			11/29/23 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/28/23 02:16	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	<50.3	U	50.3		mg/Kg		11/27/23 13:23	11/28/23 02:16	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 13:23	11/28/23 02:16	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 13:23	11/28/23 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	11/27/23 13:23	11/28/23 02:16	1
o-Terphenyl	98		70 - 130	11/27/23 13:23	11/28/23 02:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2120		100		mg/Kg			11/29/23 04:17	20

Client Sample ID: BH-2 (1.5')

Lab Sample ID: 880-36058-2

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 17:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 17:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 17:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/29/23 09:09	11/29/23 17:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 17:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/29/23 09:09	11/29/23 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	11/29/23 09:09	11/29/23 17:16	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	11/29/23 09:09	11/29/23 17:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (1.5')

Lab Sample ID: 880-36058-2

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/29/23 17:16	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			11/28/23 02:37	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		11/27/23 13:23	11/28/23 02:37	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/27/23 13:23	11/28/23 02:37	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 13:23	11/28/23 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/27/23 13:23	11/28/23 02:37	1
o-Terphenyl	92		70 - 130				11/27/23 13:23	11/28/23 02:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1650		49.9		mg/Kg			11/29/23 04:34	10

Client Sample ID: BH-2 (2')

Lab Sample ID: 880-36058-3

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 17:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/29/23 09:09	11/29/23 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 17:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/29/23 09:09	11/29/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/29/23 09:09	11/29/23 17:37	1
1,4-Difluorobenzene (Surr)	71		70 - 130				11/29/23 09:09	11/29/23 17:37	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			11/29/23 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/28/23 02:57	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	<50.4	U	50.4		mg/Kg		11/27/23 13:23	11/28/23 02:57	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 13:23	11/28/23 02:57	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (2')

Lab Sample ID: 880-36058-3

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 13:23	11/28/23 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/27/23 13:23	11/28/23 02:57	1
o-Terphenyl	94		70 - 130				11/27/23 13:23	11/28/23 02:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		50.2		mg/Kg			11/29/23 04:40	10

Client Sample ID: BH-2 (3')

Lab Sample ID: 880-36058-4

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 17:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 17:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 17:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/29/23 09:09	11/29/23 17:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 17:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/29/23 09:09	11/29/23 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				11/29/23 09:09	11/29/23 17:57	1
1,4-Difluorobenzene (Surr)	86		70 - 130				11/29/23 09:09	11/29/23 17:57	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			11/29/23 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/28/23 03:18	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	<50.5	U	50.5		mg/Kg		11/27/23 13:23	11/28/23 03:18	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 13:23	11/28/23 03:18	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 13:23	11/28/23 03:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/27/23 13:23	11/28/23 03:18	1
o-Terphenyl	88		70 - 130				11/27/23 13:23	11/28/23 03:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		4.97		mg/Kg			11/29/23 11:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (4')

Lab Sample ID: 880-36058-5

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 18:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 18:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 18:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/29/23 09:09	11/29/23 18:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/29/23 09:09	11/29/23 18:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/29/23 09:09	11/29/23 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	11/29/23 09:09	11/29/23 18:18	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/29/23 09:09	11/29/23 18:18	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			11/29/23 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/28/23 03:38	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		11/27/23 13:23	11/28/23 03:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:23	11/28/23 03:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:23	11/28/23 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/27/23 13:23	11/28/23 03:38	1
o-Terphenyl	88		70 - 130	11/27/23 13:23	11/28/23 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.9		5.05		mg/Kg			11/29/23 11:49	1

Client Sample ID: BH-2 (5')

Lab Sample ID: 880-36058-6

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 18:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 18:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 18:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/29/23 09:09	11/29/23 18:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 18:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/29/23 09:09	11/29/23 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/29/23 09:09	11/29/23 18:38	1
1,4-Difluorobenzene (Surr)	72		70 - 130	11/29/23 09:09	11/29/23 18:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (5')

Lab Sample ID: 880-36058-6

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/29/23 18:38	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			11/28/23 03:58	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		11/27/23 13:23	11/28/23 03:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 13:23	11/28/23 03:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 13:23	11/28/23 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/27/23 13:23	11/28/23 03:58	1
o-Terphenyl	93		70 - 130				11/27/23 13:23	11/28/23 03:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.2		5.00		mg/Kg			11/29/23 11:55	1

Client Sample ID: BH-2 (6')

Lab Sample ID: 880-36058-7

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/29/23 09:09	11/29/23 18:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/29/23 09:09	11/29/23 18:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/29/23 09:09	11/29/23 18:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/29/23 09:09	11/29/23 18:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/29/23 09:09	11/29/23 18:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/29/23 09:09	11/29/23 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/29/23 09:09	11/29/23 18:59	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130				11/29/23 09:09	11/29/23 18:59	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			11/29/23 18:59	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			11/28/23 04:19	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		11/27/23 13:23	11/28/23 04:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:23	11/28/23 04:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (6')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:23	11/28/23 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/27/23 13:23	11/28/23 04:19	1
o-Terphenyl	88		70 - 130				11/27/23 13:23	11/28/23 04:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		4.96		mg/Kg			11/29/23 12:00	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
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	DFBZ1				
		(70-130)	(70-130)				
880-36058-1	BH-2 (0-1')	73	83				
880-36058-2	BH-2 (1.5')	87	69 S1-				
880-36058-3	BH-2 (2')	96	71				
880-36058-4	BH-2 (3')	73	86				
880-36058-5	BH-2 (4')	70	90				
880-36058-6	BH-2 (5')	101	72				
880-36058-7	BH-2 (6')	94	68 S1-				
880-36187-A-1-B MS	Matrix Spike	87	78				
880-36187-A-1-C MSD	Matrix Spike Duplicate	128	100				
LCS 880-67901/1-A	Lab Control Sample	124	100				
LCSD 880-67901/2-A	Lab Control Sample Dup	123	97				
MB 880-67901/5-A	Method Blank	76	87				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-36058-1	BH-2 (0-1')	104	98				
880-36058-2	BH-2 (1.5')	97	92				
880-36058-3	BH-2 (2')	99	94				
880-36058-4	BH-2 (3')	93	88				
880-36058-5	BH-2 (4')	93	88				
880-36058-6	BH-2 (5')	100	93				
880-36058-7	BH-2 (6')	94	88				
890-5669-A-1-B MS	Matrix Spike	95	83				
890-5669-A-1-C MSD	Matrix Spike Duplicate	96	82				
LCS 880-67746/2-A	Lab Control Sample	118	119				
LCSD 880-67746/3-A	Lab Control Sample Dup	90	94				
MB 880-67746/1-A	Method Blank	101	105				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67901/5-A

Matrix: Solid

Analysis Batch: 67897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 11:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 11:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 11:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/29/23 09:09	11/29/23 11:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 09:09	11/29/23 11:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/29/23 09:09	11/29/23 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	11/29/23 09:09	11/29/23 11:06	1
1,4-Difluorobenzene (Surr)	87		70 - 130	11/29/23 09:09	11/29/23 11:06	1

Lab Sample ID: LCS 880-67901/1-A

Matrix: Solid

Analysis Batch: 67897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09301		mg/Kg		93	70 - 130
Toluene	0.100	0.08881		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09948		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2059		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1012		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-67901/2-A

Matrix: Solid

Analysis Batch: 67897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67901

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07753		mg/Kg		78	70 - 130	18	35
Toluene	0.100	0.07454		mg/Kg		75	70 - 130	17	35
Ethylbenzene	0.100	0.08562		mg/Kg		86	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1817		mg/Kg		91	70 - 130	12	35
o-Xylene	0.100	0.08960		mg/Kg		90	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-36187-A-1-B MS

Matrix: Solid

Analysis Batch: 67897

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 67901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F2 F1	0.0996	0.04625	F1	mg/Kg		46	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05465	F1	mg/Kg		55	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36187-A-1-B MS

Matrix: Solid

Analysis Batch: 67897

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 67901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.05499	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1014	F1	mg/Kg		51	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.05222	F1	mg/Kg		52	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	87		70 - 130						
1,4-Difluorobenzene (Surr)	78		70 - 130						

Lab Sample ID: 880-36187-A-1-C MSD

Matrix: Solid

Analysis Batch: 67897

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 67901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0996	0.07684	F2	mg/Kg		77	70 - 130	50	35
Toluene	<0.00199	U F1	0.0996	0.07295		mg/Kg		73	70 - 130	29	35
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.08638	F2	mg/Kg		87	70 - 130	44	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1787	F2	mg/Kg		90	70 - 130	55	35
o-Xylene	<0.00199	U F2 F1	0.0996	0.08627	F2	mg/Kg		87	70 - 130	49	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	128		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

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

Lab Sample ID: MB 880-67746/1-A

Matrix: Solid

Analysis Batch: 67686

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67746

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		11/27/23 13:22	11/27/23 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:22	11/27/23 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:22	11/27/23 19:36	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/27/23 13:22	11/27/23 19:36	1
o-Terphenyl	105		70 - 130				11/27/23 13:22	11/27/23 19:36	1

Lab Sample ID: LCS 880-67746/2-A

Matrix: Solid

Analysis Batch: 67686

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.0		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	986.8		mg/Kg		99	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-67746/2-A
Matrix: Solid
Analysis Batch: 67686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67746

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-67746/3-A
Matrix: Solid
Analysis Batch: 67686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67746

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	868.5		mg/Kg		87	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	900.2		mg/Kg		90	70 - 130	9	20
Surrogate	%Recovery	LCSD	LCSD						
1-Chlorooctane	90								
o-Terphenyl	94								

Lab Sample ID: 890-5669-A-1-B MS
Matrix: Solid
Analysis Batch: 67686

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67746

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	<49.6	U	997	767.8		mg/Kg		73	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U	997	735.8		mg/Kg		71	70 - 130		
Surrogate	%Recovery	MS	MS								
1-Chlorooctane	95										
o-Terphenyl	83										

Lab Sample ID: 890-5669-A-1-C MSD
Matrix: Solid
Analysis Batch: 67686

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 67746

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	<49.6	U	997	780.3		mg/Kg		74	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.6	U	997	739.3		mg/Kg		72	70 - 130	0	20
Surrogate	%Recovery	MSD	MSD								
1-Chlorooctane	96										
o-Terphenyl	82										

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67761/1-A

Matrix: Solid

Analysis Batch: 67823

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			11/29/23 04:00	1

Lab Sample ID: LCS 880-67761/2-A

Matrix: Solid

Analysis Batch: 67823

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.6		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-67761/3-A

Matrix: Solid

Analysis Batch: 67823

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.8		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-36058-1 MS

Matrix: Solid

Analysis Batch: 67823

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2120		5020	7280		mg/Kg		103	90 - 110

Lab Sample ID: 880-36058-1 MSD

Matrix: Solid

Analysis Batch: 67823

Client Sample ID: BH-2 (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	2120		5020	7328		mg/Kg		104	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 67897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-1	BH-2 (0-1')	Total/NA	Solid	8021B	67901
880-36058-2	BH-2 (1.5')	Total/NA	Solid	8021B	67901
880-36058-3	BH-2 (2')	Total/NA	Solid	8021B	67901
880-36058-4	BH-2 (3')	Total/NA	Solid	8021B	67901
880-36058-5	BH-2 (4')	Total/NA	Solid	8021B	67901
880-36058-6	BH-2 (5')	Total/NA	Solid	8021B	67901
880-36058-7	BH-2 (6')	Total/NA	Solid	8021B	67901
MB 880-67901/5-A	Method Blank	Total/NA	Solid	8021B	67901
LCS 880-67901/1-A	Lab Control Sample	Total/NA	Solid	8021B	67901
LCSD 880-67901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67901
880-36187-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	67901
880-36187-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	67901

Prep Batch: 67901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-1	BH-2 (0-1')	Total/NA	Solid	5035	
880-36058-2	BH-2 (1.5')	Total/NA	Solid	5035	
880-36058-3	BH-2 (2')	Total/NA	Solid	5035	
880-36058-4	BH-2 (3')	Total/NA	Solid	5035	
880-36058-5	BH-2 (4')	Total/NA	Solid	5035	
880-36058-6	BH-2 (5')	Total/NA	Solid	5035	
880-36058-7	BH-2 (6')	Total/NA	Solid	5035	
MB 880-67901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36187-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-36187-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 68049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-1	BH-2 (0-1')	Total/NA	Solid	Total BTEX	
880-36058-2	BH-2 (1.5')	Total/NA	Solid	Total BTEX	
880-36058-3	BH-2 (2')	Total/NA	Solid	Total BTEX	
880-36058-4	BH-2 (3')	Total/NA	Solid	Total BTEX	
880-36058-5	BH-2 (4')	Total/NA	Solid	Total BTEX	
880-36058-6	BH-2 (5')	Total/NA	Solid	Total BTEX	
880-36058-7	BH-2 (6')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 67686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-1	BH-2 (0-1')	Total/NA	Solid	8015B NM	67746
880-36058-2	BH-2 (1.5')	Total/NA	Solid	8015B NM	67746
880-36058-3	BH-2 (2')	Total/NA	Solid	8015B NM	67746
880-36058-4	BH-2 (3')	Total/NA	Solid	8015B NM	67746
880-36058-5	BH-2 (4')	Total/NA	Solid	8015B NM	67746
880-36058-6	BH-2 (5')	Total/NA	Solid	8015B NM	67746
880-36058-7	BH-2 (6')	Total/NA	Solid	8015B NM	67746
MB 880-67746/1-A	Method Blank	Total/NA	Solid	8015B NM	67746
LCS 880-67746/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67746

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 67686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-67746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67746
890-5669-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	67746
890-5669-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	67746

Prep Batch: 67746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-1	BH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-36058-2	BH-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-36058-3	BH-2 (2')	Total/NA	Solid	8015NM Prep	
880-36058-4	BH-2 (3')	Total/NA	Solid	8015NM Prep	
880-36058-5	BH-2 (4')	Total/NA	Solid	8015NM Prep	
880-36058-6	BH-2 (5')	Total/NA	Solid	8015NM Prep	
880-36058-7	BH-2 (6')	Total/NA	Solid	8015NM Prep	
MB 880-67746/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67746/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5669-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5669-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-1	BH-2 (0-1')	Total/NA	Solid	8015 NM	
880-36058-2	BH-2 (1.5')	Total/NA	Solid	8015 NM	
880-36058-3	BH-2 (2')	Total/NA	Solid	8015 NM	
880-36058-4	BH-2 (3')	Total/NA	Solid	8015 NM	
880-36058-5	BH-2 (4')	Total/NA	Solid	8015 NM	
880-36058-6	BH-2 (5')	Total/NA	Solid	8015 NM	
880-36058-7	BH-2 (6')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 67761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-1	BH-2 (0-1')	Soluble	Solid	DI Leach	
880-36058-2	BH-2 (1.5')	Soluble	Solid	DI Leach	
880-36058-3	BH-2 (2')	Soluble	Solid	DI Leach	
880-36058-4	BH-2 (3')	Soluble	Solid	DI Leach	
880-36058-5	BH-2 (4')	Soluble	Solid	DI Leach	
880-36058-6	BH-2 (5')	Soluble	Solid	DI Leach	
880-36058-7	BH-2 (6')	Soluble	Solid	DI Leach	
MB 880-67761/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67761/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67761/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36058-1 MS	BH-2 (0-1')	Soluble	Solid	DI Leach	
880-36058-1 MSD	BH-2 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 67823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-1	BH-2 (0-1')	Soluble	Solid	300.0	67761
880-36058-2	BH-2 (1.5')	Soluble	Solid	300.0	67761
880-36058-3	BH-2 (2')	Soluble	Solid	300.0	67761

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 67823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36058-4	BH-2 (3')	Soluble	Solid	300.0	67761
880-36058-5	BH-2 (4')	Soluble	Solid	300.0	67761
880-36058-6	BH-2 (5')	Soluble	Solid	300.0	67761
880-36058-7	BH-2 (6')	Soluble	Solid	300.0	67761
MB 880-67761/1-A	Method Blank	Soluble	Solid	300.0	67761
LCS 880-67761/2-A	Lab Control Sample	Soluble	Solid	300.0	67761
LCSD 880-67761/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67761
880-36058-1 MS	BH-2 (0-1')	Soluble	Solid	300.0	67761
880-36058-1 MSD	BH-2 (0-1')	Soluble	Solid	300.0	67761

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (0-1')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-1
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			5.03 g	5 mL	67901	11/29/23 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67897	11/29/23 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68049	11/29/23 16:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			67826	11/28/23 02:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67746	11/27/23 13:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67686	11/28/23 02:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	67823	11/29/23 04:17	CH	EET MID

Client Sample ID: BH-2 (1.5')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-2
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			5.01 g	5 mL	67901	11/29/23 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67897	11/29/23 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68049	11/29/23 17:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			67826	11/28/23 02:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67746	11/27/23 13:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67686	11/28/23 02:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67823	11/29/23 04:34	CH	EET MID

Client Sample ID: BH-2 (2')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-3
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	67901	11/29/23 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67897	11/29/23 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68049	11/29/23 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			67826	11/28/23 02:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	67746	11/27/23 13:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67686	11/28/23 02:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67823	11/29/23 04:40	CH	EET MID

Client Sample ID: BH-2 (3')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-4
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			5.02 g	5 mL	67901	11/29/23 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67897	11/29/23 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68049	11/29/23 17:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (3')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-4
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			67826	11/28/23 03:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67746	11/27/23 13:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67686	11/28/23 03:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 11:43	CH	EET MID

Client Sample ID: BH-2 (4')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-5
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			5.03 g	5 mL	67901	11/29/23 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67897	11/29/23 18:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68049	11/29/23 18:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			67826	11/28/23 03:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	67746	11/27/23 13:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67686	11/28/23 03:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 11:49	CH	EET MID

Client Sample ID: BH-2 (5')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-6
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			5.01 g	5 mL	67901	11/29/23 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67897	11/29/23 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68049	11/29/23 18:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			67826	11/28/23 03:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67746	11/27/23 13:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67686	11/28/23 03:58	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 11:55	CH	EET MID

Client Sample ID: BH-2 (6')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-7
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			4.97 g	5 mL	67901	11/29/23 09:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67897	11/29/23 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68049	11/29/23 18:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			67826	11/28/23 04:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67746	11/27/23 13:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67686	11/28/23 04:19	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (6')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36058-7
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			5.04 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 12:00	CH	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: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
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

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Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
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: Southern Comfort 5 6 10 12

Job ID: 880-36058-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36058-1	BH-2 (0-1')	Solid	11/20/23 00:00	11/21/23 10:01
880-36058-2	BH-2 (1.5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36058-3	BH-2 (2')	Solid	11/20/23 00:00	11/21/23 10:01
880-36058-4	BH-2 (3')	Solid	11/20/23 00:00	11/21/23 10:01
880-36058-5	BH-2 (4')	Solid	11/20/23 00:00	11/21/23 10:01
880-36058-6	BH-2 (5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36058-7	BH-2 (6')	Solid	11/20/23 00:00	11/21/23 10:01

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Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjar
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	msanjar@marathonoil.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ ROWfields ☐ RRC ☐ Iperfund ☐	
State of Project	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	



880-36058 Chain of Custody

W/O

Project Name	Southern Comfort 5 6 10 12		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number	2173		☒ Routine	☐ Rush														None NO	DI Water H ₂ O	
Project Location	Eddy County, New Mexico		Due Date	5 day														Cool Cool	MeOH Me	
Sampler's Name	CCM																	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 Inact.	Yes/No	Thermometer ID													NaHSO ₄ NABIS					
Cooler Custody Seals.	Yes/No	Correction Factor													Na ₂ S ₂ O ₃ NaSO ₃					
Sample Custody Seals	Yes/No	Temperature Reading													Zn Acetate+NaOH Zn					
Total Containers		Corrected Temperature													NaOH+Ascorbic Acid SAPC					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
BH-2 (0-1')	11/20/2023		X		G	1	X	X	X											
BH-2 (1-5')	11/20/2023		X		G	1	X	X	X											
BH-2 (2')	11/20/2023		X		G	1	X	X	X											
BH-2 (3')	11/20/2023		X		G	1	X	X	X											
BH-2 (4')	11/20/2023		X		G	1	X	X	X											
BH-2 (5')	11/20/2023		X		G	1	X	X	X											
BH-2 (6')	11/20/2023		X		G	1	X	X	X											

Comments Email results to Mike Carmona mcarmona@camonareresources.com, Conner Moehring cmoehring@camonareresources.com, Clint Merritt merrittc@camonareresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Carmona</i>	11-21-23	<i>[Signature]</i>	1001

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-36058-1

SDG Number: Eddy County, New Mexico

Login Number: 36058

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 12/1/2023 2:03:36 PM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
Eddy County, New Mexico

JOB NUMBER

880-36059-1

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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12/1/2023 2:03:36 PM

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

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-36059-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Job ID: 880-36059-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-36059-1**

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 11/21/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH-3 (0-1') (880-36059-1), BH-3 (1.5') (880-36059-2), BH-3 (2') (880-36059-3), BH-3 (3') (880-36059-4), BH-3 (4') (880-36059-5), BH-3 (5') (880-36059-6), BH-3 (6') (880-36059-7), BH-3 (7') (880-36059-8) and BH-3 (8') (880-36059-9).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67866 and 880-67875 and analytical batch 880-67898 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-3 (0-1') (880-36059-1), BH-3 (3') (880-36059-4) and BH-3 (6') (880-36059-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67866 and analytical batch 880-67898 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: Surrogate recovery for the following samples were outside control limits: (CCV 880-67803/20) and (CCV 880-67803/5). 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36059-1

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		11/28/23 12:57	11/30/23 01:49	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		11/28/23 12:57	11/30/23 01:49	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		11/28/23 12:57	11/30/23 01:49	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		11/28/23 12:57	11/30/23 01:49	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		11/28/23 12:57	11/30/23 01:49	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		11/28/23 12:57	11/30/23 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	52	S1-	70 - 130	11/28/23 12:57	11/30/23 01:49	1
1,4-Difluorobenzene (Surr)	77		70 - 130	11/28/23 12:57	11/30/23 01:49	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			11/30/23 01:49	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			11/28/23 10:39	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		11/27/23 18:02	11/28/23 10:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/27/23 18:02	11/28/23 10:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 18:02	11/28/23 10:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	11/27/23 18:02	11/28/23 10:39	1
o-Terphenyl	113		70 - 130	11/27/23 18:02	11/28/23 10:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7740		100		mg/Kg			11/29/23 05:19	20

Client Sample ID: BH-3 (1.5')

Lab Sample ID: 880-36059-2

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 02:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 02:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 02:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/28/23 12:57	11/30/23 02:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 02:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/28/23 12:57	11/30/23 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	11/28/23 12:57	11/30/23 02:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/28/23 12:57	11/30/23 02:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (1.5')

Lab Sample ID: 880-36059-2

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/30/23 02:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/28/23 11:45	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	<50.4	U	50.4		mg/Kg		11/27/23 18:02	11/28/23 11:45	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 18:02	11/28/23 11:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 18:02	11/28/23 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/27/23 18:02	11/28/23 11:45	1
o-Terphenyl	114		70 - 130				11/27/23 18:02	11/28/23 11:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		49.8		mg/Kg			11/29/23 05:25	10

Client Sample ID: BH-3 (2')

Lab Sample ID: 880-36059-3

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/28/23 12:57	11/30/23 02:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/28/23 12:57	11/30/23 02:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/28/23 12:57	11/30/23 02:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/28/23 12:57	11/30/23 02:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/28/23 12:57	11/30/23 02:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/28/23 12:57	11/30/23 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/28/23 12:57	11/30/23 02:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130				11/28/23 12:57	11/30/23 02:40	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			11/30/23 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/28/23 12:08	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	<50.5	U	50.5		mg/Kg		11/27/23 18:02	11/28/23 12:08	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 18:02	11/28/23 12:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (2')

Lab Sample ID: 880-36059-3

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 18:02	11/28/23 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/27/23 18:02	11/28/23 12:08	1
o-Terphenyl	112		70 - 130				11/27/23 18:02	11/28/23 12:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		49.5		mg/Kg			11/29/23 05:31	10

Client Sample ID: BH-3 (3')

Lab Sample ID: 880-36059-4

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 03:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 03:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 03:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/28/23 12:57	11/30/23 03:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 03:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/28/23 12:57	11/30/23 03:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130				11/28/23 12:57	11/30/23 03:05	1
1,4-Difluorobenzene (Surr)	84		70 - 130				11/28/23 12:57	11/30/23 03:05	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			11/30/23 03:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/28/23 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/27/23 18:02	11/28/23 12:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/27/23 18:02	11/28/23 12:30	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/27/23 18:02	11/28/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				11/27/23 18:02	11/28/23 12:30	1
o-Terphenyl	120		70 - 130				11/27/23 18:02	11/28/23 12:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	949		50.4		mg/Kg			11/29/23 05:36	10

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (4')

Lab Sample ID: 880-36059-5

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 03:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 03:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 03:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/28/23 12:57	11/30/23 03:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 03:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/28/23 12:57	11/30/23 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/28/23 12:57	11/30/23 03:31	1
1,4-Difluorobenzene (Surr)	87		70 - 130	11/28/23 12:57	11/30/23 03:31	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			11/30/23 03:31	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			11/28/23 12:52	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		11/27/23 18:02	11/28/23 12:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/27/23 18:02	11/28/23 12:52	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 18:02	11/28/23 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	11/27/23 18:02	11/28/23 12:52	1
o-Terphenyl	114		70 - 130	11/27/23 18:02	11/28/23 12:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.7		5.01		mg/Kg			11/29/23 12:06	1

Client Sample ID: BH-3 (5')

Lab Sample ID: 880-36059-6

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 03:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 03:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 03:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/28/23 12:57	11/30/23 03:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 03:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/28/23 12:57	11/30/23 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/28/23 12:57	11/30/23 03:57	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/28/23 12:57	11/30/23 03:57	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (5')

Lab Sample ID: 880-36059-6

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/30/23 03:57	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			11/28/23 13:14	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		11/27/23 18:02	11/28/23 13:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 18:02	11/28/23 13:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 18:02	11/28/23 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				11/27/23 18:02	11/28/23 13:14	1
o-Terphenyl	119		70 - 130				11/27/23 18:02	11/28/23 13:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		5.03		mg/Kg			11/29/23 12:12	1

Client Sample ID: BH-3 (6')

Lab Sample ID: 880-36059-7

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 04:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 04:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 04:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/28/23 12:57	11/30/23 04:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 04:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/28/23 12:57	11/30/23 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				11/28/23 12:57	11/30/23 04:23	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/28/23 12:57	11/30/23 04:23	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			11/30/23 04:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/28/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/27/23 18:02	11/28/23 13:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/27/23 18:02	11/28/23 13:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (6')

Lab Sample ID: 880-36059-7

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/27/23 18:02	11/28/23 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/27/23 18:02	11/28/23 13:36	1
o-Terphenyl	109		70 - 130				11/27/23 18:02	11/28/23 13:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.9		5.01		mg/Kg			11/29/23 12:17	1

Client Sample ID: BH-3 (7')

Lab Sample ID: 880-36059-8

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 04:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 04:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 04:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/28/23 12:57	11/30/23 04:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/28/23 12:57	11/30/23 04:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/28/23 12:57	11/30/23 04:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				11/28/23 12:57	11/30/23 04:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/28/23 12:57	11/30/23 04:48	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			11/30/23 04:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/28/23 13:59	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	<50.3	U	50.3		mg/Kg		11/27/23 18:02	11/28/23 13:59	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 18:02	11/28/23 13:59	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 18:02	11/28/23 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/27/23 18:02	11/28/23 13:59	1
o-Terphenyl	110		70 - 130				11/27/23 18:02	11/28/23 13:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.1		5.05		mg/Kg			11/29/23 12:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (8')

Lab Sample ID: 880-36059-9

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 05:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 05:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 05:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/28/23 12:57	11/30/23 05:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 05:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/28/23 12:57	11/30/23 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/28/23 12:57	11/30/23 05:14	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/28/23 12:57	11/30/23 05:14	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			11/30/23 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/28/23 14:21	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	<50.4	U	50.4		mg/Kg		11/27/23 18:02	11/28/23 14:21	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 18:02	11/28/23 14:21	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 18:02	11/28/23 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	11/27/23 18:02	11/28/23 14:21	1
o-Terphenyl	116		70 - 130	11/27/23 18:02	11/28/23 14:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.02		mg/Kg			11/29/23 12:29	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
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	DFBZ1
		(70-130)	(70-130)
880-36059-1	BH-3 (0-1')	52 S1-	77
880-36059-1 MS	BH-3 (0-1')	113	95
880-36059-1 MSD	BH-3 (0-1')	97	139 S1+
880-36059-2	BH-3 (1.5')	114	100
880-36059-3	BH-3 (2')	110	93
880-36059-4	BH-3 (3')	63 S1-	84
880-36059-5	BH-3 (4')	120	87
880-36059-6	BH-3 (5')	107	95
880-36059-7	BH-3 (6')	142 S1+	106
880-36059-8	BH-3 (7')	127	100
880-36059-9	BH-3 (8')	112	94
LCS 880-67866/1-A	Lab Control Sample	120	99
LCSD 880-67866/2-A	Lab Control Sample Dup	108	103
MB 880-67866/5-A	Method Blank	58 S1-	90
MB 880-67875/5-A	Method Blank	63 S1-	88
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1	OTPH1								
		(70-130)	(70-130)								
880-36059-1	BH-3 (0-1')	106	113								
880-36059-1 MS	BH-3 (0-1')	99	99								
880-36059-1 MSD	BH-3 (0-1')	112	109								
880-36059-2	BH-3 (1.5')	106	114								
880-36059-3	BH-3 (2')	104	112								
880-36059-4	BH-3 (3')	114	120								
880-36059-5	BH-3 (4')	108	114								
880-36059-6	BH-3 (5')	113	119								
880-36059-7	BH-3 (6')	101	109								
880-36059-8	BH-3 (7')	104	110								
880-36059-9	BH-3 (8')	107	116								
LCS 880-67796/2-A	Lab Control Sample	105	119								
LCSD 880-67796/3-A	Lab Control Sample Dup	94	106								
MB 880-67796/1-A	Method Blank	99	110								
Surrogate Legend											
1CO = 1-Chlorooctane											
OTPH = o-Terphenyl											

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67866/5-A

Matrix: Solid

Analysis Batch: 67898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 01:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 01:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 01:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/28/23 12:57	11/30/23 01:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 12:57	11/30/23 01:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/28/23 12:57	11/30/23 01:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130	11/28/23 12:57	11/30/23 01:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/28/23 12:57	11/30/23 01:23	1

Lab Sample ID: LCS 880-67866/1-A

Matrix: Solid

Analysis Batch: 67898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07773		mg/Kg		78	70 - 130
Toluene	0.100	0.09291		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09651		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1855		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09435		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-67866/2-A

Matrix: Solid

Analysis Batch: 67898

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67866

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08168		mg/Kg		82	70 - 130	5	35
Toluene	0.100	0.08794		mg/Kg		88	70 - 130	5	35
Ethylbenzene	0.100	0.09657		mg/Kg		97	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1845		mg/Kg		92	70 - 130	1	35
o-Xylene	0.100	0.08889		mg/Kg		89	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-36059-1 MS

Matrix: Solid

Analysis Batch: 67898

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

Prep Type: Total/NA

Prep Batch: 67866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F2 F1	0.0996	0.07503		mg/Kg		75	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05707	F1	mg/Kg		57	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36059-1 MS

Matrix: Solid

Analysis Batch: 67898

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

Prep Type: Total/NA

Prep Batch: 67866

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Ethylbenzene	<0.00199	U F1	0.0996	0.04889	F1	mg/Kg		49	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1157	F1	mg/Kg		58	70 - 130	
o-Xylene	<0.00199	U F1	0.0996	0.06018	F1	mg/Kg		59	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	113		70 - 130							
1,4-Difluorobenzene (Surr)	95		70 - 130							

Lab Sample ID: 880-36059-1 MSD

Matrix: Solid

Analysis Batch: 67898

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

Prep Type: Total/NA

Prep Batch: 67866

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits		RPD	Limit
Benzene	<0.00199	U F2 F1	0.0990	0.05141	F2 F1	mg/Kg		52	70 - 130		37	35
Toluene	<0.00199	U F1	0.0990	0.05705	F1	mg/Kg		58	70 - 130		0	35
Ethylbenzene	<0.00199	U F1	0.0990	0.05658	F1	mg/Kg		57	70 - 130		15	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1069	F1	mg/Kg		54	70 - 130		8	35
o-Xylene	<0.00199	U F1	0.0990	0.05818	F1	mg/Kg		58	70 - 130		3	35
		MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	97		70 - 130									
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130									

Lab Sample ID: MB 880-67875/5-A

Matrix: Solid

Analysis Batch: 67898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67875

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		11/28/23 14:33	11/29/23 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/28/23 14:33	11/29/23 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/28/23 14:33	11/29/23 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/28/23 14:33	11/29/23 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/28/23 14:33	11/29/23 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/28/23 14:33	11/29/23 11:55	1
		MB	MB						
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130						
1,4-Difluorobenzene (Surr)	88		70 - 130						

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

Lab Sample ID: MB 880-67796/1-A

Matrix: Solid

Analysis Batch: 67803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67796

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/27/23 18:02	11/28/23 08:05	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-67796/1-A

Matrix: Solid

Analysis Batch: 67803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67796

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 18:02	11/28/23 08:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 18:02	11/28/23 08:05	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	99		70 - 130				11/27/23 18:02	11/28/23 08:05	1
o-Terphenyl	110		70 - 130				11/27/23 18:02	11/28/23 08:05	1

Lab Sample ID: LCS 880-67796/2-A

Matrix: Solid

Analysis Batch: 67803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1053		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	943.1		mg/Kg		94	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	105		70 - 130						
o-Terphenyl	119		70 - 130						

Lab Sample ID: LCSD 880-67796/3-A

Matrix: Solid

Analysis Batch: 67803

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67796

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	892.2		mg/Kg		89	70 - 130	6	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 880-36059-1 MS

Matrix: Solid

Analysis Batch: 67803

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

Prep Type: Total/NA

Prep Batch: 67796

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1058		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	755.6		mg/Kg		70	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	99		70 - 130								
o-Terphenyl	99		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36059-1 MSD

Matrix: Solid

Analysis Batch: 67803

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

Prep Type: Total/NA

Prep Batch: 67796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1186		mg/Kg		115	70 - 130	11	20 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	853.0		mg/Kg		80	70 - 130	12	20 - 130
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	109		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67761/1-A

Matrix: Solid

Analysis Batch: 67823

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			11/29/23 04:00	1

Lab Sample ID: LCS 880-67761/2-A

Matrix: Solid

Analysis Batch: 67823

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.6		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-67761/3-A

Matrix: Solid

Analysis Batch: 67823

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		Limits
Chloride	250	254.8		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-36059-4 MS

Matrix: Solid

Analysis Batch: 67823

Client Sample ID: BH-3 (3')

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	949		2520	3660		mg/Kg		108	90 - 110		

Lab Sample ID: 880-36059-4 MSD

Matrix: Solid

Analysis Batch: 67823

Client Sample ID: BH-3 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride	949		2520	3662		mg/Kg		108	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 67866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-1	BH-3 (0-1')	Total/NA	Solid	5035	
880-36059-2	BH-3 (1.5')	Total/NA	Solid	5035	
880-36059-3	BH-3 (2')	Total/NA	Solid	5035	
880-36059-4	BH-3 (3')	Total/NA	Solid	5035	
880-36059-5	BH-3 (4')	Total/NA	Solid	5035	
880-36059-6	BH-3 (5')	Total/NA	Solid	5035	
880-36059-7	BH-3 (6')	Total/NA	Solid	5035	
880-36059-8	BH-3 (7')	Total/NA	Solid	5035	
880-36059-9	BH-3 (8')	Total/NA	Solid	5035	
MB 880-67866/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67866/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67866/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36059-1 MS	BH-3 (0-1')	Total/NA	Solid	5035	
880-36059-1 MSD	BH-3 (0-1')	Total/NA	Solid	5035	

Prep Batch: 67875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67875/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 67898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-1	BH-3 (0-1')	Total/NA	Solid	8021B	67866
880-36059-2	BH-3 (1.5')	Total/NA	Solid	8021B	67866
880-36059-3	BH-3 (2')	Total/NA	Solid	8021B	67866
880-36059-4	BH-3 (3')	Total/NA	Solid	8021B	67866
880-36059-5	BH-3 (4')	Total/NA	Solid	8021B	67866
880-36059-6	BH-3 (5')	Total/NA	Solid	8021B	67866
880-36059-7	BH-3 (6')	Total/NA	Solid	8021B	67866
880-36059-8	BH-3 (7')	Total/NA	Solid	8021B	67866
880-36059-9	BH-3 (8')	Total/NA	Solid	8021B	67866
MB 880-67866/5-A	Method Blank	Total/NA	Solid	8021B	67866
MB 880-67875/5-A	Method Blank	Total/NA	Solid	8021B	67875
LCS 880-67866/1-A	Lab Control Sample	Total/NA	Solid	8021B	67866
LCSD 880-67866/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67866
880-36059-1 MS	BH-3 (0-1')	Total/NA	Solid	8021B	67866
880-36059-1 MSD	BH-3 (0-1')	Total/NA	Solid	8021B	67866

Analysis Batch: 68154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-1	BH-3 (0-1')	Total/NA	Solid	Total BTEX	
880-36059-2	BH-3 (1.5')	Total/NA	Solid	Total BTEX	
880-36059-3	BH-3 (2')	Total/NA	Solid	Total BTEX	
880-36059-4	BH-3 (3')	Total/NA	Solid	Total BTEX	
880-36059-5	BH-3 (4')	Total/NA	Solid	Total BTEX	
880-36059-6	BH-3 (5')	Total/NA	Solid	Total BTEX	
880-36059-7	BH-3 (6')	Total/NA	Solid	Total BTEX	
880-36059-8	BH-3 (7')	Total/NA	Solid	Total BTEX	
880-36059-9	BH-3 (8')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

GC Semi VOA

Prep Batch: 67796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-1	BH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-36059-2	BH-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-36059-3	BH-3 (2')	Total/NA	Solid	8015NM Prep	
880-36059-4	BH-3 (3')	Total/NA	Solid	8015NM Prep	
880-36059-5	BH-3 (4')	Total/NA	Solid	8015NM Prep	
880-36059-6	BH-3 (5')	Total/NA	Solid	8015NM Prep	
880-36059-7	BH-3 (6')	Total/NA	Solid	8015NM Prep	
880-36059-8	BH-3 (7')	Total/NA	Solid	8015NM Prep	
880-36059-9	BH-3 (8')	Total/NA	Solid	8015NM Prep	
MB 880-67796/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67796/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36059-1 MS	BH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-36059-1 MSD	BH-3 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-1	BH-3 (0-1')	Total/NA	Solid	8015B NM	67796
880-36059-2	BH-3 (1.5')	Total/NA	Solid	8015B NM	67796
880-36059-3	BH-3 (2')	Total/NA	Solid	8015B NM	67796
880-36059-4	BH-3 (3')	Total/NA	Solid	8015B NM	67796
880-36059-5	BH-3 (4')	Total/NA	Solid	8015B NM	67796
880-36059-6	BH-3 (5')	Total/NA	Solid	8015B NM	67796
880-36059-7	BH-3 (6')	Total/NA	Solid	8015B NM	67796
880-36059-8	BH-3 (7')	Total/NA	Solid	8015B NM	67796
880-36059-9	BH-3 (8')	Total/NA	Solid	8015B NM	67796
MB 880-67796/1-A	Method Blank	Total/NA	Solid	8015B NM	67796
LCS 880-67796/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67796
LCSD 880-67796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67796
880-36059-1 MS	BH-3 (0-1')	Total/NA	Solid	8015B NM	67796
880-36059-1 MSD	BH-3 (0-1')	Total/NA	Solid	8015B NM	67796

Analysis Batch: 67939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-1	BH-3 (0-1')	Total/NA	Solid	8015 NM	
880-36059-2	BH-3 (1.5')	Total/NA	Solid	8015 NM	
880-36059-3	BH-3 (2')	Total/NA	Solid	8015 NM	
880-36059-4	BH-3 (3')	Total/NA	Solid	8015 NM	
880-36059-5	BH-3 (4')	Total/NA	Solid	8015 NM	
880-36059-6	BH-3 (5')	Total/NA	Solid	8015 NM	
880-36059-7	BH-3 (6')	Total/NA	Solid	8015 NM	
880-36059-8	BH-3 (7')	Total/NA	Solid	8015 NM	
880-36059-9	BH-3 (8')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 67761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-1	BH-3 (0-1')	Soluble	Solid	DI Leach	
880-36059-2	BH-3 (1.5')	Soluble	Solid	DI Leach	
880-36059-3	BH-3 (2')	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 67761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-4	BH-3 (3')	Soluble	Solid	DI Leach	
880-36059-5	BH-3 (4')	Soluble	Solid	DI Leach	
880-36059-6	BH-3 (5')	Soluble	Solid	DI Leach	
880-36059-7	BH-3 (6')	Soluble	Solid	DI Leach	
880-36059-8	BH-3 (7')	Soluble	Solid	DI Leach	
880-36059-9	BH-3 (8')	Soluble	Solid	DI Leach	
MB 880-67761/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67761/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67761/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36059-4 MS	BH-3 (3')	Soluble	Solid	DI Leach	
880-36059-4 MSD	BH-3 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 67823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36059-1	BH-3 (0-1')	Soluble	Solid	300.0	67761
880-36059-2	BH-3 (1.5')	Soluble	Solid	300.0	67761
880-36059-3	BH-3 (2')	Soluble	Solid	300.0	67761
880-36059-4	BH-3 (3')	Soluble	Solid	300.0	67761
880-36059-5	BH-3 (4')	Soluble	Solid	300.0	67761
880-36059-6	BH-3 (5')	Soluble	Solid	300.0	67761
880-36059-7	BH-3 (6')	Soluble	Solid	300.0	67761
880-36059-8	BH-3 (7')	Soluble	Solid	300.0	67761
880-36059-9	BH-3 (8')	Soluble	Solid	300.0	67761
MB 880-67761/1-A	Method Blank	Soluble	Solid	300.0	67761
LCS 880-67761/2-A	Lab Control Sample	Soluble	Solid	300.0	67761
LCSD 880-67761/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67761
880-36059-4 MS	BH-3 (3')	Soluble	Solid	300.0	67761
880-36059-4 MSD	BH-3 (3')	Soluble	Solid	300.0	67761

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (0-1')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36059-1
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			5.03 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 01:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			67939	11/28/23 10:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 10:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	67823	11/29/23 05:19	CH	EET MID

Client Sample ID: BH-3 (1.5')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36059-2
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			5.01 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 02:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 02:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			67939	11/28/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 11:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67823	11/29/23 05:25	CH	EET MID

Client Sample ID: BH-3 (2')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36059-3
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			4.97 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 02:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 02:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			67939	11/28/23 12:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 12:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67823	11/29/23 05:31	CH	EET MID

Client Sample ID: BH-3 (3')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36059-4
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			4.99 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 03:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (3')

Lab Sample ID: 880-36059-4

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67939	11/28/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 12:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	67823	11/29/23 05:36	CH	EET MID

Client Sample ID: BH-3 (4')

Lab Sample ID: 880-36059-5

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 03:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 03:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			67939	11/28/23 12:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 12:52	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 12:06	CH	EET MID

Client Sample ID: BH-3 (5')

Lab Sample ID: 880-36059-6

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 03:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 03:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			67939	11/28/23 13:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 13:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 12:12	CH	EET MID

Client Sample ID: BH-3 (6')

Lab Sample ID: 880-36059-7

Date Collected: 11/20/23 00:00

Matrix: Solid

Date Received: 11/21/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 04:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 04:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			67939	11/28/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 13:36	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (6')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36059-7
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			4.99 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 12:17	CH	EET MID

Client Sample ID: BH-3 (7')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36059-8
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			5.03 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 04:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 04:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			67939	11/28/23 13:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 13:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 12:23	CH	EET MID

Client Sample ID: BH-3 (8')
Date Collected: 11/20/23 00:00
Date Received: 11/21/23 10:01

Lab Sample ID: 880-36059-9
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			5.01 g	5 mL	67866	11/28/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67898	11/30/23 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68154	11/30/23 05:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			67939	11/28/23 14:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67796	11/27/23 18:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67803	11/28/23 14:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67761	11/27/23 14:34	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67823	11/29/23 12:29	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: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
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

- 1
- 2
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Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
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: Southern Comfort 5 6 10 12

Job ID: 880-36059-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36059-1	BH-3 (0-1')	Solid	11/20/23 00:00	11/21/23 10:01
880-36059-2	BH-3 (1.5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36059-3	BH-3 (2')	Solid	11/20/23 00:00	11/21/23 10:01
880-36059-4	BH-3 (3')	Solid	11/20/23 00:00	11/21/23 10:01
880-36059-5	BH-3 (4')	Solid	11/20/23 00:00	11/21/23 10:01
880-36059-6	BH-3 (5')	Solid	11/20/23 00:00	11/21/23 10:01
880-36059-7	BH-3 (6')	Solid	11/20/23 00:00	11/21/23 10:01
880-36059-8	BH-3 (7')	Solid	11/20/23 00:00	11/21/23 10:01
880-36059-9	BH-3 (8')	Solid	11/20/23 00:00	11/21/23 10:01

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Project Manager	Clinton Merritt	Bill to (if different)	Melodie Sanjari
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	msanjari@marathonoil.com

Project Name	Southern Comfort 5 6 10 12	Turn Around	Pres. Code
Project Number	2173	☒ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	5 day
Sampler's Name	CCM		
PO #			

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

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters
BH-3 (0-1')	11/20/2023		X		G	1	X X X X
BH-3 (1-5')	11/20/2023		X		G	1	X X X X
BH-3 (2')	11/20/2023		X		G	1	X X X X
BH-3 (3')	11/20/2023		X		G	1	X X X X
BH-3 (4')	11/20/2023		X		G	1	X X X X
BH-3 (5')	11/20/2023		X		G	1	X X X X
BH-3 (6')	11/20/2023		X		G	1	X X X X
BH-3 (7')	11/20/2023		X		G	1	X X X X
BH-3 (8')	11/20/2023		X		G	1	X X X X

Comments	Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt merrittc@carmonaresources.com
----------	--



Program: UST/ST	☐ PRP	☐ Brownfields	☐ RRC	☐ Superfund
State of Project:				
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP	☐ Level IV
Deliverables	EDD	☐ ADAPT	☐ Other	

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Sharon Hays</i>	11-21-23 1001	<i>[Signature]</i>	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
BH-3 (0-1')	11/20/2023		X		G	1	X X X X		None NO	DI Water H ₂ O
BH-3 (1-5')	11/20/2023		X		G	1	X X X X		Cool Cool	MeOH Me
BH-3 (2')	11/20/2023		X		G	1	X X X X		HCL HC	HNO ₃ HN
BH-3 (3')	11/20/2023		X		G	1	X X X X		H ₂ SO ₄ H ₂	NaOH Na
BH-3 (4')	11/20/2023		X		G	1	X X X X		H ₃ PO ₄ HP	
BH-3 (5')	11/20/2023		X		G	1	X X X X		NaHSO ₄ NABIS	
BH-3 (6')	11/20/2023		X		G	1	X X X X		Na ₂ S ₂ O ₃ NaSO ₃	
BH-3 (7')	11/20/2023		X		G	1	X X X X		Zn Acetate+NaOH Zn	
BH-3 (8')	11/20/2023		X		G	1	X X X X		NaOH+Ascorbic Acid SAPC	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-36059-1

SDG Number: Eddy County, New Mexico

Login Number: 36059

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/14/2024 4:04:51 PM

JOB DESCRIPTION

Southern Comfort 5 6 10 12
Eddy County, new Mexico

JOB NUMBER

880-38939-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
2/14/2024 4:04:51 PM

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

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
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Case Narrative

Client: Carmona Resources
Project: Southern Comfort 5 6 10 12

Job ID: 880-38939-1

Job ID: 880-38939-1

Eurofins Midland

Job Narrative
880-38939-1

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 2/5/2024 3:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (2') (880-38939-1), CS-2 (2') (880-38939-2), CS-3 (2') (880-38939-3), CS-4 (2') (880-38939-4), CS-5 (2') (880-38939-5), CS-6 (3.5') (880-38939-6), CS-7 (4.5') (880-38939-7), CS-8 (4.5') (880-38939-8), CS-9 (4.5') (880-38939-9), CS-10 (4.5') (880-38939-10), CS-11 (4.5') (880-38939-11), CS-12 (4.5') (880-38939-12), CS-13 (4.5') (880-38939-13), CS-14 (4.5') (880-38939-14), CS-15 (1.5') (880-38939-15), CS-16 (1.5') (880-38939-16), SW-1 (2') (880-38939-17), SW-2 (2') (880-38939-18), SW-3 (2') (880-38939-19), SW-4 (2') (880-38939-20), SW-5 (2') (880-38939-21), SW-6 (2') (880-38939-22), SW-7 (2') (880-38939-23), SW-8 (2') (880-38939-24), SW-9 (2') (880-38939-25), SW-10 (3.5') (880-38939-26), SW-11 (1.5') (880-38939-27), SW-12 (3.5') (880-38939-28), SW-13 (3.5') (880-38939-29), SW-14 (2') (880-38939-30), SW-15 (4.5') (880-38939-31), SW-16 (4.5') (880-38939-32), SW-17 (1.0') (880-38939-33), SW-18 (4.5') (880-38939-34), SW-19 (4.5') (880-38939-35), SW-20 (4.5') (880-38939-36), SW-21 (4.5') (880-38939-37), SW-22 (4.5') (880-38939-38), SW-23 (4.5') (880-38939-39), SW-24 (4.5') (880-38939-40), SW-25 (4.5') (880-38939-41), SW-26 (4.5') (880-38939-42), SW-27 (4.5') (880-38939-43), SW-28 (4.5') (880-38939-44), SW-29 (4.5') (880-38939-45), SW-30 (1.5') (880-38939-46), SW-31 (1.5') (880-38939-47), SW-32 (1.5') (880-38939-48) and SW-33 (1.5') (880-38939-49).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72821 and analytical batch 880-72835 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-25 (4.5') (880-38939-41) and SW-29 (4.5') (880-38939-45). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72834 recovered above the upper control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-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 880-72834/51).

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (2') (880-38939-1), CS-5 (2') (880-38939-5), CS-8 (4.5') (880-38939-8), CS-11 (4.5') (880-38939-11), CS-12 (4.5') (880-38939-12), CS-13 (4.5') (880-38939-13), CS-14 (4.5') (880-38939-14), CS-15 (1.5') (880-38939-15), CS-16 (1.5') (880-38939-16), SW-2 (2') (880-38939-18), (CCV 880-72833/51) and (LCSD 880-72822/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72822 and analytical batch 880-72833 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-72822 and analytical batch 880-72833 was outside the upper control limits.

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Case Narrative

Client: Carmona Resources
Project: Southern Comfort 5 6 10 12

Job ID: 880-38939-1

Job ID: 880-38939-1 (Continued)

Eurofins Midland

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72834 recovered above the upper control limit for Toluene, Ethylbenzene and m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-72834/20).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72823 and analytical batch 880-72834 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-4 (2') (880-38939-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-4 (2') (880-38939-20). 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 880-72518 and analytical batch 880-72814 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-32 (1.5') (880-38939-48) and SW-33 (1.5') (880-38939-49). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-72518 and analytical batch 880-72814 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72508 and 880-72517 and analytical batch 880-72825 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-8 (4.5') (880-38939-8), CS-9 (4.5') (880-38939-9) and (880-38939-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-4 (2') (880-38939-20), SW-5 (2') (880-38939-21), SW-6 (2') (880-38939-22), SW-7 (2') (880-38939-23), SW-9 (2') (880-38939-25), SW-10 (3.5') (880-38939-26), SW-13 (3.5') (880-38939-29), SW-16 (4.5') (880-38939-32), SW-24 (4.5') (880-38939-40), (880-38939-A-21-C MS) and (880-38939-A-21-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-72508 and analytical batch 880-72825 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-72517 and analytical batch 880-72825. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-72825 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). 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 880-72825/58).

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-72455 and analytical batch 880-72561 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

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Case Narrative

Client: Carmona Resources
Project: Southern Comfort 5 6 10 12

Job ID: 880-38939-1

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within acceptance limits.

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-1 (2')

Lab Sample ID: 880-38939-1

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		02/11/24 13:32	02/13/24 01:55	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		02/11/24 13:32	02/13/24 01:55	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		02/11/24 13:32	02/13/24 01:55	1
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.00401		mg/Kg		02/11/24 13:32	02/13/24 01:55	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		02/11/24 13:32	02/13/24 01:55	1
Xylenes, Total	<0.00401	U F2 F1	0.00401		mg/Kg		02/11/24 13:32	02/13/24 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/11/24 13:32	02/13/24 01:55	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/11/24 13:32	02/13/24 01:55	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			02/13/24 01:55	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			02/12/24 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/06/24 14:02	02/12/24 10:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		02/06/24 14:02	02/12/24 10:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/06/24 14:02	02/12/24 10:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	02/06/24 14:02	02/12/24 10:02	1
o-Terphenyl	96		70 - 130	02/06/24 14:02	02/12/24 10:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.98		mg/Kg			02/07/24 22:34	1

Client Sample ID: CS-2 (2')

Lab Sample ID: 880-38939-2

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 02:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 02:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 02:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 02:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 02:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	02/11/24 13:32	02/13/24 02:21	1
1,4-Difluorobenzene (Surr)	71		70 - 130	02/11/24 13:32	02/13/24 02:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-2 (2')

Lab Sample ID: 880-38939-2

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 02:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/12/24 11:09	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	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 11:09	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 11:09	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 11:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/06/24 14:02	02/12/24 11:09	1
o-Terphenyl	94		70 - 130				02/06/24 14:02	02/12/24 11:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	363		4.95		mg/Kg			02/07/24 22:39	1

Client Sample ID: CS-3 (2')

Lab Sample ID: 880-38939-3

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 02:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 02:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 02:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 02:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 02:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				02/11/24 13:32	02/13/24 02:47	1
1,4-Difluorobenzene (Surr)	126		70 - 130				02/11/24 13:32	02/13/24 02:47	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			02/13/24 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/12/24 11:31	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	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 11:31	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 11:31	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-3 (2')

Lab Sample ID: 880-38939-3

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 11:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				02/06/24 14:02	02/12/24 11:31	1
o-Terphenyl	83		70 - 130				02/06/24 14:02	02/12/24 11:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	373		5.01		mg/Kg			02/07/24 22:43	1

Client Sample ID: CS-4 (2')

Lab Sample ID: 880-38939-4

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 03:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 03:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 03:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:32	02/13/24 03:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 03:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:32	02/13/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				02/11/24 13:32	02/13/24 03:13	1
1,4-Difluorobenzene (Surr)	112		70 - 130				02/11/24 13:32	02/13/24 03:13	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			02/13/24 03:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/12/24 11:53	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	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 11:53	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 11:53	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 11:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				02/06/24 14:02	02/12/24 11:53	1
o-Terphenyl	94		70 - 130				02/06/24 14:02	02/12/24 11:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		4.96		mg/Kg			02/07/24 22:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-5 (2')

Lab Sample ID: 880-38939-5

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 03:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 03:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 03:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:32	02/13/24 03:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 03:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:32	02/13/24 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	02/11/24 13:32	02/13/24 03:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/11/24 13:32	02/13/24 03:39	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			02/13/24 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/12/24 12:15	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	<50.2	U	50.2		mg/Kg		02/06/24 14:02	02/12/24 12:15	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/06/24 14:02	02/12/24 12:15	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/06/24 14:02	02/12/24 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/06/24 14:02	02/12/24 12:15	1
o-Terphenyl	86		70 - 130	02/06/24 14:02	02/12/24 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		4.99		mg/Kg			02/07/24 23:02	1

Client Sample ID: CS-6 (3.5')

Lab Sample ID: 880-38939-6

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 04:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 04:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 04:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 04:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 04:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	02/11/24 13:32	02/13/24 04:05	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/11/24 13:32	02/13/24 04:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-6 (3.5')

Lab Sample ID: 880-38939-6

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 04:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/12/24 12:37	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	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 12:37	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 12:37	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				02/06/24 14:02	02/12/24 12:37	1
o-Terphenyl	84		70 - 130				02/06/24 14:02	02/12/24 12:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	737		50.0		mg/Kg			02/07/24 23:06	10

Client Sample ID: CS-7 (4.5')

Lab Sample ID: 880-38939-7

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 04:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 04:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 04:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 04:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 04:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				02/11/24 13:32	02/13/24 04:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/11/24 13:32	02/13/24 04:31	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			02/13/24 04:31	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			02/12/24 13:00	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		02/06/24 14:02	02/12/24 13:00	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/06/24 14:02	02/12/24 13:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-7 (4.5')

Lab Sample ID: 880-38939-7

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/06/24 14:02	02/12/24 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				02/06/24 14:02	02/12/24 13:00	1
o-Terphenyl	77		70 - 130				02/06/24 14:02	02/12/24 13:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	923		50.4		mg/Kg			02/07/24 23:11	10

Client Sample ID: CS-8 (4.5')

Lab Sample ID: 880-38939-8

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 04:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 04:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 04:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:32	02/13/24 04:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 04:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:32	02/13/24 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130				02/11/24 13:32	02/13/24 04:57	1
1,4-Difluorobenzene (Surr)	120		70 - 130				02/11/24 13:32	02/13/24 04:57	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			02/13/24 04:57	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			02/12/24 13:22	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		02/06/24 14:02	02/12/24 13:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/24 14:02	02/12/24 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/24 14:02	02/12/24 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	29	S1-	70 - 130				02/06/24 14:02	02/12/24 13:22	1
o-Terphenyl	19	S1-	70 - 130				02/06/24 14:02	02/12/24 13:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.6		5.02		mg/Kg			02/07/24 23:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-9 (4.5')

Lab Sample ID: 880-38939-9

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 05:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 05:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 05:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:32	02/13/24 05:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 05:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:32	02/13/24 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				02/11/24 13:32	02/13/24 05:23	1
1,4-Difluorobenzene (Surr)	124		70 - 130				02/11/24 13:32	02/13/24 05:23	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			02/13/24 05:23	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			02/12/24 13:45	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		02/06/24 14:02	02/12/24 13:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/24 14:02	02/12/24 13:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/24 14:02	02/12/24 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	S1-	70 - 130				02/06/24 14:02	02/12/24 13:45	1
o-Terphenyl	50	S1-	70 - 130				02/06/24 14:02	02/12/24 13:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.6		5.03		mg/Kg			02/07/24 23:20	1

Client Sample ID: CS-10 (4.5')

Lab Sample ID: 880-38939-10

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 05:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 05:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 05:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/24 13:32	02/13/24 05:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 05:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/24 13:32	02/13/24 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				02/11/24 13:32	02/13/24 05:49	1
1,4-Difluorobenzene (Surr)	87		70 - 130				02/11/24 13:32	02/13/24 05:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-10 (4.5')

Lab Sample ID: 880-38939-10

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 05:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/12/24 14:07	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	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 14:07	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 14:07	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				02/06/24 14:02	02/12/24 14:07	1
o-Terphenyl	86		70 - 130				02/06/24 14:02	02/12/24 14:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	523		49.9		mg/Kg			02/07/24 23:25	10

Client Sample ID: CS-11 (4.5')

Lab Sample ID: 880-38939-11

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 07:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 07:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 07:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 07:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 07:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 07:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				02/11/24 13:32	02/13/24 07:38	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/11/24 13:32	02/13/24 07:38	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			02/13/24 07:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/12/24 14:52	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	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 14:52	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 14:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-11 (4.5')

Lab Sample ID: 880-38939-11

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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)	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/06/24 14:02	02/12/24 14:52	1
o-Terphenyl	97		70 - 130				02/06/24 14:02	02/12/24 14:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	511		50.2		mg/Kg			02/07/24 23:39	10

Client Sample ID: CS-12 (4.5')

Lab Sample ID: 880-38939-12

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 08:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 08:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 08:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 08:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 08:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 08:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				02/11/24 13:32	02/13/24 08:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130				02/11/24 13:32	02/13/24 08:05	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			02/13/24 08:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/12/24 15:14	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	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 15:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 15:14	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/06/24 14:02	02/12/24 15:14	1
o-Terphenyl	95		70 - 130				02/06/24 14:02	02/12/24 15:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393	F1	49.7		mg/Kg			02/07/24 19:38	10

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-13 (4.5')

Lab Sample ID: 880-38939-13

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 08:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 08:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 08:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:32	02/13/24 08:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 08:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:32	02/13/24 08:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130	02/11/24 13:32	02/13/24 08:32	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/11/24 13:32	02/13/24 08:32	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			02/13/24 08:32	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			02/12/24 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/06/24 14:02	02/12/24 15:36	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/06/24 14:02	02/12/24 15:36	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/06/24 14:02	02/12/24 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/06/24 14:02	02/12/24 15:36	1
o-Terphenyl	89		70 - 130	02/06/24 14:02	02/12/24 15:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	586		49.6		mg/Kg			02/07/24 19:52	10

Client Sample ID: CS-14 (4.5')

Lab Sample ID: 880-38939-14

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 08:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 08:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 08:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:32	02/13/24 08:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 08:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:32	02/13/24 08:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	02/11/24 13:32	02/13/24 08:59	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/11/24 13:32	02/13/24 08:59	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-14 (4.5')

Lab Sample ID: 880-38939-14

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 08:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/12/24 15:58	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	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 15:58	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 15:58	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				02/06/24 14:02	02/12/24 15:58	1
o-Terphenyl	78		70 - 130				02/06/24 14:02	02/12/24 15:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	565		49.8		mg/Kg			02/07/24 19:56	10

Client Sample ID: CS-15 (1.5')

Lab Sample ID: 880-38939-15

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 09:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 09:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 09:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/24 13:32	02/13/24 09:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 09:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/24 13:32	02/13/24 09:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				02/11/24 13:32	02/13/24 09:25	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/11/24 13:32	02/13/24 09:25	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			02/13/24 09:25	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			02/12/24 16:20	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		02/06/24 14:02	02/12/24 16:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/06/24 14:02	02/12/24 16:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-15 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-15
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)	<50.0	U	50.0		mg/Kg		02/06/24 14:02	02/12/24 16:20	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	78		70 - 130				02/06/24 14:02	02/12/24 16:20	1	
o-Terphenyl	77		70 - 130				02/06/24 14:02	02/12/24 16:20	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	853		50.2		mg/Kg			02/07/24 20:01	10	

Client Sample ID: CS-16 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-16
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		02/11/24 13:32	02/13/24 09:52	1	
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 09:52	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 09:52	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 09:52	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 09:52	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 09:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				02/11/24 13:32	02/13/24 09:52	1	
1,4-Difluorobenzene (Surr)	74		70 - 130				02/11/24 13:32	02/13/24 09:52	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			02/13/24 09:52	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.3	U	50.3		mg/Kg			02/12/24 16:42	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	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 16:42	1	
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 16:42	1	
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/06/24 14:02	02/12/24 16:42	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	73		70 - 130				02/06/24 14:02	02/12/24 16:42	1	
o-Terphenyl	75		70 - 130				02/06/24 14:02	02/12/24 16:42	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	857		50.4		mg/Kg			02/07/24 20:06	10	

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-1 (2')

Lab Sample ID: 880-38939-17

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 10:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 10:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 10:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 10:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:32	02/13/24 10:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:32	02/13/24 10:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				02/11/24 13:32	02/13/24 10:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/11/24 13:32	02/13/24 10:19	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			02/13/24 10:19	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			02/12/24 17:05	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		02/06/24 14:02	02/12/24 17:05	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/06/24 14:02	02/12/24 17:05	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/06/24 14:02	02/12/24 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				02/06/24 14:02	02/12/24 17:05	1
o-Terphenyl	77		70 - 130				02/06/24 14:02	02/12/24 17:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	579		25.0		mg/Kg			02/07/24 20:20	5

Client Sample ID: SW-2 (2')

Lab Sample ID: 880-38939-18

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 10:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 10:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 10:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:32	02/13/24 10:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 10:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:32	02/13/24 10:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/11/24 13:32	02/13/24 10:45	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/11/24 13:32	02/13/24 10:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-2 (2')

Lab Sample ID: 880-38939-18

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 10:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/12/24 17:27	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	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 17:27	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 17:27	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/06/24 14:02	02/12/24 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				02/06/24 14:02	02/12/24 17:27	1
o-Terphenyl	89		70 - 130				02/06/24 14:02	02/12/24 17:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	352		4.99		mg/Kg			02/07/24 20:24	1

Client Sample ID: SW-3 (2')

Lab Sample ID: 880-38939-19

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 11:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 11:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 11:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:32	02/13/24 11:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:32	02/13/24 11:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:32	02/13/24 11:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/11/24 13:32	02/13/24 11:12	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/11/24 13:32	02/13/24 11:12	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			02/13/24 11:12	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			02/12/24 17:49	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	<49.9	U	49.9		mg/Kg		02/06/24 14:02	02/12/24 17:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/24 14:02	02/12/24 17:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-3 (2')

Lab Sample ID: 880-38939-19

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/06/24 14:02	02/12/24 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				02/06/24 14:02	02/12/24 17:49	1
o-Terphenyl	91		70 - 130				02/06/24 14:02	02/12/24 17:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.03		mg/Kg			02/07/24 20:29	1

Client Sample ID: SW-4 (2')

Lab Sample ID: 880-38939-20

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:32	02/13/24 11:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 11:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 11:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/24 13:32	02/13/24 11:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 11:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/24 13:32	02/13/24 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				02/11/24 13:32	02/13/24 11:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/11/24 13:32	02/13/24 11:38	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			02/13/24 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/12/24 18:11	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	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 18:11	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 18:11	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/06/24 14:02	02/12/24 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				02/06/24 14:02	02/12/24 18:11	1
o-Terphenyl	71		70 - 130				02/06/24 14:02	02/12/24 18:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		25.2		mg/Kg			02/07/24 20:34	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-5 (2')

Lab Sample ID: 880-38939-21

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		02/11/24 13:34	02/13/24 00:03	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		02/11/24 13:34	02/13/24 00:03	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		02/11/24 13:34	02/13/24 00:03	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		02/11/24 13:34	02/13/24 00:03	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		02/11/24 13:34	02/13/24 00:03	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		02/11/24 13:34	02/13/24 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	02/11/24 13:34	02/13/24 00:03	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/11/24 13:34	02/13/24 00:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/13/24 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	<49.6	U	49.6		mg/Kg			02/12/24 20:04	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	<49.6	U F1	49.6		mg/Kg		02/06/24 14:09	02/12/24 20:04	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	49.6		mg/Kg		02/06/24 14:09	02/12/24 20:04	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/06/24 14:09	02/12/24 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	02/06/24 14:09	02/12/24 20:04	1
o-Terphenyl	73		70 - 130	02/06/24 14:09	02/12/24 20:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.97		mg/Kg			02/07/24 20:38	1

Client Sample ID: SW-6 (2')

Lab Sample ID: 880-38939-22

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 00:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 00:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 00:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 00:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 00:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	02/11/24 13:34	02/13/24 00:24	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/11/24 13:34	02/13/24 00:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-6 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-22
Matrix: Solid

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			02/13/24 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	<50.5	U	50.5		mg/Kg			02/12/24 21:13	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	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/12/24 21:13	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/12/24 21:13	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/12/24 21:13	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	40	S1-	70 - 130				02/06/24 14:09	02/12/24 21:13	1	
o-Terphenyl	33	S1-	70 - 130				02/06/24 14:09	02/12/24 21:13	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	368		4.99		mg/Kg			02/07/24 20:43	1	

Client Sample ID: SW-7 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-23
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		02/11/24 13:34	02/13/24 00:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 00:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 00:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 00:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 00:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/11/24 13:34	02/13/24 00:44	1
1,4-Difluorobenzene (Surr)	73		70 - 130				02/11/24 13:34	02/13/24 00:44	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/24 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	<49.9	U	49.9		mg/Kg			02/12/24 21:36	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/06/24 14:09	02/12/24 21:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/24 14:09	02/12/24 21:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-7 (2')

Lab Sample ID: 880-38939-23

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/06/24 14:09	02/12/24 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				02/06/24 14:09	02/12/24 21:36	1
o-Terphenyl	67	S1-	70 - 130				02/06/24 14:09	02/12/24 21:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.04		mg/Kg			02/07/24 20:57	1

Client Sample ID: SW-8 (2')

Lab Sample ID: 880-38939-24

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 01:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 01:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 01:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:34	02/13/24 01:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 01:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:34	02/13/24 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				02/11/24 13:34	02/13/24 01:05	1
1,4-Difluorobenzene (Surr)	77		70 - 130				02/11/24 13:34	02/13/24 01:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/24 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	<49.7	U	49.7		mg/Kg			02/12/24 21:58	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		02/06/24 14:09	02/12/24 21:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/06/24 14:09	02/12/24 21:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/06/24 14:09	02/12/24 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				02/06/24 14:09	02/12/24 21:58	1
o-Terphenyl	116		70 - 130				02/06/24 14:09	02/12/24 21:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		5.01		mg/Kg			02/07/24 21:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-9 (2')

Lab Sample ID: 880-38939-25

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 01:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 01:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 01:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:34	02/13/24 01:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 01:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:34	02/13/24 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				02/11/24 13:34	02/13/24 01:25	1
1,4-Difluorobenzene (Surr)	73		70 - 130				02/11/24 13:34	02/13/24 01:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/24 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	<49.9	U	49.9		mg/Kg			02/12/24 22:20	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		02/06/24 14:09	02/12/24 22:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/24 14:09	02/12/24 22:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/24 14:09	02/12/24 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	56	S1-	70 - 130				02/06/24 14:09	02/12/24 22:20	1
o-Terphenyl	54	S1-	70 - 130				02/06/24 14:09	02/12/24 22:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	648		49.5		mg/Kg			02/07/24 21:15	10

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-38939-26

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 01:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 01:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 01:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 01:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 01:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				02/11/24 13:34	02/13/24 01:46	1
1,4-Difluorobenzene (Surr)	77		70 - 130				02/11/24 13:34	02/13/24 01:46	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-38939-26

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 01:46	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			02/12/24 22:42	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	<49.8	U	49.8		mg/Kg		02/06/24 14:09	02/12/24 22:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/06/24 14:09	02/12/24 22:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/06/24 14:09	02/12/24 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				02/06/24 14:09	02/12/24 22:42	1
o-Terphenyl	131	S1+	70 - 130				02/06/24 14:09	02/12/24 22:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	691		49.7		mg/Kg			02/07/24 21:20	10

Client Sample ID: SW-11 (1.5')

Lab Sample ID: 880-38939-27

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 02:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 02:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 02:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 02:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 02:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				02/11/24 13:34	02/13/24 02:06	1
1,4-Difluorobenzene (Surr)	71		70 - 130				02/11/24 13:34	02/13/24 02:06	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			02/13/24 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/12/24 23:03	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	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/12/24 23:03	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/12/24 23:03	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-11 (1.5')

Lab Sample ID: 880-38939-27

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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)	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/12/24 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				02/06/24 14:09	02/12/24 23:03	1
o-Terphenyl	100		70 - 130				02/06/24 14:09	02/12/24 23:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	879		24.9		mg/Kg			02/07/24 21:24	5

Client Sample ID: SW-12 (3.5')

Lab Sample ID: 880-38939-28

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 02:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 02:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 02:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:34	02/13/24 02:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 02:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:34	02/13/24 02:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				02/11/24 13:34	02/13/24 02:27	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/11/24 13:34	02/13/24 02:27	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			02/13/24 02:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	87.1		50.5		mg/Kg			02/12/24 23:24	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	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/12/24 23:24	1
Diesel Range Organics (Over C10-C28)	87.1		50.5		mg/Kg		02/06/24 14:09	02/12/24 23:24	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/12/24 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				02/06/24 14:09	02/12/24 23:24	1
o-Terphenyl	109		70 - 130				02/06/24 14:09	02/12/24 23:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	698		49.8		mg/Kg			02/07/24 21:29	10

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-13 (3.5')

Lab Sample ID: 880-38939-29

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 02:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 02:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 02:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:34	02/13/24 02:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 02:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:34	02/13/24 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				02/11/24 13:34	02/13/24 02:47	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/11/24 13:34	02/13/24 02:47	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			02/13/24 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/12/24 23:46	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	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/12/24 23:46	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/12/24 23:46	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/12/24 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				02/06/24 14:09	02/12/24 23:46	1
o-Terphenyl	136	S1+	70 - 130				02/06/24 14:09	02/12/24 23:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	662		50.2		mg/Kg			02/07/24 21:34	10

Client Sample ID: SW-14 (2')

Lab Sample ID: 880-38939-30

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 03:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 03:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 03:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/24 13:34	02/13/24 03:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 03:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/24 13:34	02/13/24 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				02/11/24 13:34	02/13/24 03:08	1
1,4-Difluorobenzene (Surr)	78		70 - 130				02/11/24 13:34	02/13/24 03:08	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-14 (2')

Lab Sample ID: 880-38939-30

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 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	<49.8	U	49.8		mg/Kg			02/13/24 00:08	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	<49.8	U	49.8		mg/Kg		02/06/24 14:09	02/13/24 00:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/06/24 14:09	02/13/24 00:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/06/24 14:09	02/13/24 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				02/06/24 14:09	02/13/24 00:08	1
o-Terphenyl	121		70 - 130				02/06/24 14:09	02/13/24 00:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		5.05		mg/Kg			02/07/24 21:38	1

Client Sample ID: SW-15 (4.5')

Lab Sample ID: 880-38939-31

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 04:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 04:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 04:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 04:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 04:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 04:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				02/11/24 13:34	02/13/24 04:30	1
1,4-Difluorobenzene (Surr)	80		70 - 130				02/11/24 13:34	02/13/24 04:30	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			02/13/24 04:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/13/24 00:53	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	<49.6	U	49.6		mg/Kg		02/06/24 14:09	02/13/24 00:53	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/06/24 14:09	02/13/24 00:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-15 (4.5')

Lab Sample ID: 880-38939-31

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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)	<49.6	U	49.6		mg/Kg		02/06/24 14:09	02/13/24 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/06/24 14:09	02/13/24 00:53	1
o-Terphenyl	110		70 - 130				02/06/24 14:09	02/13/24 00:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	954		50.5		mg/Kg			02/07/24 21:43	10

Client Sample ID: SW-16 (4.5')

Lab Sample ID: 880-38939-32

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 04:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 04:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 04:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 04:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 04:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 04:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				02/11/24 13:34	02/13/24 04:50	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/11/24 13:34	02/13/24 04:50	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			02/13/24 04:50	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			02/13/24 01:15	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		02/06/24 14:09	02/13/24 01:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/24 14:09	02/13/24 01:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/24 14:09	02/13/24 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				02/06/24 14:09	02/13/24 01:15	1
o-Terphenyl	136	S1+	70 - 130				02/06/24 14:09	02/13/24 01:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		49.8		mg/Kg			02/08/24 03:44	10

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-17 (1.0')

Lab Sample ID: 880-38939-33

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 05:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 05:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 05:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:34	02/13/24 05:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 05:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:34	02/13/24 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	02/11/24 13:34	02/13/24 05:11	1
1,4-Difluorobenzene (Surr)	82		70 - 130	02/11/24 13:34	02/13/24 05:11	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			02/13/24 05:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/24 01:37	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		02/06/24 14:09	02/13/24 01:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/24 14:09	02/13/24 01:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/24 14:09	02/13/24 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	02/06/24 14:09	02/13/24 01:37	1
o-Terphenyl	84		70 - 130	02/06/24 14:09	02/13/24 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.4		5.05		mg/Kg			02/08/24 04:04	1

Client Sample ID: SW-18 (4.5')

Lab Sample ID: 880-38939-34

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 05:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 05:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 05:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:34	02/13/24 05:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 05:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:34	02/13/24 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	02/11/24 13:34	02/13/24 05:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/11/24 13:34	02/13/24 05:31	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-18 (4.5')

Lab Sample ID: 880-38939-34

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 05:31	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			02/13/24 01:59	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	<50.0	U	50.0		mg/Kg		02/06/24 14:09	02/13/24 01:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/06/24 14:09	02/13/24 01:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/24 14:09	02/13/24 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				02/06/24 14:09	02/13/24 01:59	1
o-Terphenyl	98		70 - 130				02/06/24 14:09	02/13/24 01:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.1		5.04		mg/Kg			02/08/24 04:11	1

Client Sample ID: SW-19 (4.5')

Lab Sample ID: 880-38939-35

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 05:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 05:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 05:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/24 13:34	02/13/24 05:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 05:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/24 13:34	02/13/24 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				02/11/24 13:34	02/13/24 05:52	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/11/24 13:34	02/13/24 05:52	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			02/13/24 05:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/13/24 02:22	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	<49.6	U	49.6		mg/Kg		02/06/24 14:09	02/13/24 02:22	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/06/24 14:09	02/13/24 02:22	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-19 (4.5')

Lab Sample ID: 880-38939-35

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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)	<49.6	U	49.6		mg/Kg		02/06/24 14:09	02/13/24 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				02/06/24 14:09	02/13/24 02:22	1
o-Terphenyl	88		70 - 130				02/06/24 14:09	02/13/24 02:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.9		4.97		mg/Kg			02/08/24 04:18	1

Client Sample ID: SW-20 (4.5')

Lab Sample ID: 880-38939-36

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 06:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 06:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 06:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 06:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 06:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 06:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				02/11/24 13:34	02/13/24 06:12	1
1,4-Difluorobenzene (Surr)	83		70 - 130				02/11/24 13:34	02/13/24 06:12	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			02/13/24 06:12	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			02/13/24 02:44	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		02/06/24 14:09	02/13/24 02:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/06/24 14:09	02/13/24 02:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/06/24 14:09	02/13/24 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				02/06/24 14:09	02/13/24 02:44	1
o-Terphenyl	96		70 - 130				02/06/24 14:09	02/13/24 02:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.5		5.02		mg/Kg			02/08/24 04:25	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-21 (4.5')

Lab Sample ID: 880-38939-37

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 06:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 06:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 06:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 06:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:34	02/13/24 06:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:34	02/13/24 06:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				02/11/24 13:34	02/13/24 06:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				02/11/24 13:34	02/13/24 06:33	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			02/13/24 06:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/13/24 03:06	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	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/13/24 03:06	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/13/24 03:06	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/13/24 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				02/06/24 14:09	02/13/24 03:06	1
o-Terphenyl	129		70 - 130				02/06/24 14:09	02/13/24 03:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		50.1		mg/Kg			02/08/24 04:45	10

Client Sample ID: SW-22 (4.5')

Lab Sample ID: 880-38939-38

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 06:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 06:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 06:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:34	02/13/24 06:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 06:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:34	02/13/24 06:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				02/11/24 13:34	02/13/24 06:53	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/11/24 13:34	02/13/24 06:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-22 (4.5')

Lab Sample ID: 880-38939-38

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			02/13/24 06:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/13/24 03:28	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	<50.4	U	50.4		mg/Kg		02/06/24 14:09	02/13/24 03:28	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/06/24 14:09	02/13/24 03:28	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/06/24 14:09	02/13/24 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				02/06/24 14:09	02/13/24 03:28	1
o-Terphenyl	112		70 - 130				02/06/24 14:09	02/13/24 03:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	539		50.0		mg/Kg			02/08/24 04:52	10

Client Sample ID: SW-23 (4.5')

Lab Sample ID: 880-38939-39

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:34	02/13/24 07:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 07:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 07:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:34	02/13/24 07:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:34	02/13/24 07:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:34	02/13/24 07:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				02/11/24 13:34	02/13/24 07:14	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/11/24 13:34	02/13/24 07:14	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			02/13/24 07:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/13/24 03:50	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	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/13/24 03:50	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/13/24 03:50	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-23 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-39
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)	<50.5	U	50.5		mg/Kg		02/06/24 14:09	02/13/24 03:50	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	117		70 - 130				02/06/24 14:09	02/13/24 03:50	1	
o-Terphenyl	123		70 - 130				02/06/24 14:09	02/13/24 03:50	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	577		50.0		mg/Kg			02/08/24 04:59	10	

Client Sample ID: SW-24 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-40
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		02/11/24 13:34	02/13/24 07:34	1	
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 07:34	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 07:34	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/24 13:34	02/13/24 07:34	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/13/24 07:34	1	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/24 13:34	02/13/24 07:34	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		70 - 130				02/11/24 13:34	02/13/24 07:34	1	
1,4-Difluorobenzene (Surr)	86		70 - 130				02/11/24 13:34	02/13/24 07:34	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			02/13/24 07:34	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.2	U	50.2		mg/Kg			02/13/24 04:12	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	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/13/24 04:12	1	
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/13/24 04:12	1	
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/06/24 14:09	02/13/24 04:12	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	126		70 - 130				02/06/24 14:09	02/13/24 04:12	1	
o-Terphenyl	134	S1+	70 - 130				02/06/24 14:09	02/13/24 04:12	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	532		50.4		mg/Kg			02/08/24 10:02	10	

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-25 (4.5')

Lab Sample ID: 880-38939-41

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:30	02/13/24 02:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:30	02/13/24 02:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:30	02/13/24 02:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:30	02/13/24 02:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:30	02/13/24 02:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:30	02/13/24 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130	02/11/24 13:30	02/13/24 02:48	1
1,4-Difluorobenzene (Surr)	119		70 - 130	02/11/24 13:30	02/13/24 02:48	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			02/13/24 02:48	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			02/11/24 10:21	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 F2	49.8		mg/Kg		02/06/24 14:12	02/11/24 10:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U F2	49.8		mg/Kg		02/06/24 14:12	02/11/24 10:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/06/24 14:12	02/11/24 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	02/06/24 14:12	02/11/24 10:21	1
o-Terphenyl	98		70 - 130	02/06/24 14:12	02/11/24 10:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	447		50.5		mg/Kg			02/08/24 05:07	10

Client Sample ID: SW-26 (4.5')

Lab Sample ID: 880-38939-42

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:30	02/13/24 03:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 03:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 03:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:30	02/13/24 03:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 03:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:30	02/13/24 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/11/24 13:30	02/13/24 03:08	1
1,4-Difluorobenzene (Surr)	110		70 - 130	02/11/24 13:30	02/13/24 03:08	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-26 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-42
Matrix: Solid

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			02/13/24 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	<50.4	U	50.4		mg/Kg			02/11/24 11:27	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	<50.4	U	50.4		mg/Kg		02/06/24 14:12	02/11/24 11:27	1	
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/06/24 14:12	02/11/24 11:27	1	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/06/24 14:12	02/11/24 11:27	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	111		70 - 130				02/06/24 14:12	02/11/24 11:27	1	
o-Terphenyl	112		70 - 130				02/06/24 14:12	02/11/24 11:27	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	583		50.3		mg/Kg			02/08/24 05:14	10	

Client Sample ID: SW-27 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-43
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		02/11/24 13:30	02/13/24 03:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 03:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 03:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:30	02/13/24 03:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 03:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:30	02/13/24 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				02/11/24 13:30	02/13/24 03:28	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/11/24 13:30	02/13/24 03:28	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/24 03:28	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/11/24 11:49	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	<50.5	U	50.5		mg/Kg		02/06/24 14:12	02/11/24 11:49	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/06/24 14:12	02/11/24 11:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-27 (4.5')

Lab Sample ID: 880-38939-43

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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)	<50.5	U	50.5		mg/Kg		02/06/24 14:12	02/11/24 11:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				02/06/24 14:12	02/11/24 11:49	1
o-Terphenyl	94		70 - 130				02/06/24 14:12	02/11/24 11:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	684		49.9		mg/Kg			02/08/24 05:35	10

Client Sample ID: SW-28 (4.5')

Lab Sample ID: 880-38939-44

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:30	02/13/24 03:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 03:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 03:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:30	02/13/24 03:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 03:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:30	02/13/24 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				02/11/24 13:30	02/13/24 03:49	1
1,4-Difluorobenzene (Surr)	103		70 - 130				02/11/24 13:30	02/13/24 03:49	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			02/13/24 03:49	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			02/11/24 12:12	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	<49.7	U	49.7		mg/Kg		02/06/24 14:12	02/11/24 12:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/06/24 14:12	02/11/24 12:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/06/24 14:12	02/11/24 12:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/06/24 14:12	02/11/24 12:12	1
o-Terphenyl	98		70 - 130				02/06/24 14:12	02/11/24 12:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	531		49.9		mg/Kg			02/08/24 05:41	10

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-29 (4.5')

Lab Sample ID: 880-38939-45

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:30	02/13/24 04:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:30	02/13/24 04:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:30	02/13/24 04:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/24 13:30	02/13/24 04:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/24 13:30	02/13/24 04:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/24 13:30	02/13/24 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	194	S1+	70 - 130	02/11/24 13:30	02/13/24 04:09	1
1,4-Difluorobenzene (Surr)	125		70 - 130	02/11/24 13:30	02/13/24 04:09	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			02/13/24 04:09	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			02/11/24 12:33	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	<50.0	U	50.0		mg/Kg		02/06/24 14:12	02/11/24 12:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/06/24 14:12	02/11/24 12:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/24 14:12	02/11/24 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	02/06/24 14:12	02/11/24 12:33	1
o-Terphenyl	123		70 - 130	02/06/24 14:12	02/11/24 12:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	553		49.9		mg/Kg			02/08/24 06:02	10

Client Sample ID: SW-30 (1.5')

Lab Sample ID: 880-38939-46

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:30	02/13/24 04:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 04:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 04:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/24 13:30	02/13/24 04:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 04:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/24 13:30	02/13/24 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/11/24 13:30	02/13/24 04:30	1
1,4-Difluorobenzene (Surr)	114		70 - 130	02/11/24 13:30	02/13/24 04:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-30 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-46
Matrix: Solid

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			02/13/24 04:30	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			02/11/24 12:56	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		02/06/24 14:12	02/11/24 12:56	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/06/24 14:12	02/11/24 12:56	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/06/24 14:12	02/11/24 12:56	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	84		70 - 130				02/06/24 14:12	02/11/24 12:56	1	
o-Terphenyl	82		70 - 130				02/06/24 14:12	02/11/24 12:56	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	681		50.1		mg/Kg			02/08/24 06:09	10	

Client Sample ID: SW-31 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-47
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		02/11/24 13:30	02/13/24 06:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 06:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 06:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:30	02/13/24 06:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 06:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:30	02/13/24 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				02/11/24 13:30	02/13/24 06:20	1
1,4-Difluorobenzene (Surr)	107		70 - 130				02/11/24 13:30	02/13/24 06:20	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			02/13/24 06:20	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/11/24 13:18	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	<49.6	U	49.6		mg/Kg		02/06/24 14:12	02/11/24 13:18	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/06/24 14:12	02/11/24 13:18	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-31 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-47
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)	<49.6	U	49.6		mg/Kg		02/06/24 14:12	02/11/24 13:18	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	87		70 - 130				02/06/24 14:12	02/11/24 13:18	1	
o-Terphenyl	87		70 - 130				02/06/24 14:12	02/11/24 13:18	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1640		50.2		mg/Kg			02/08/24 06:15	10	

Client Sample ID: SW-32 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-48
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		02/11/24 13:30	02/13/24 06:40	1	
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 06:40	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 06:40	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/24 13:30	02/13/24 06:40	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/24 13:30	02/13/24 06:40	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/24 13:30	02/13/24 06:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		70 - 130				02/11/24 13:30	02/13/24 06:40	1	
1,4-Difluorobenzene (Surr)	115		70 - 130				02/11/24 13:30	02/13/24 06:40	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			02/13/24 06:40	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			02/11/24 13:40	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		02/06/24 14:12	02/11/24 13:40	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/06/24 14:12	02/11/24 13:40	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/06/24 14:12	02/11/24 13:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	60	S1-	70 - 130				02/06/24 14:12	02/11/24 13:40	1	
o-Terphenyl	56	S1-	70 - 130				02/06/24 14:12	02/11/24 13:40	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	542		49.5		mg/Kg			02/08/24 06:22	10	

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-33 (1.5')

Lab Sample ID: 880-38939-49

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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		02/11/24 13:30	02/13/24 07:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 07:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 07:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/24 13:30	02/13/24 07:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 07:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/24 13:30	02/13/24 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/11/24 13:30	02/13/24 07:01	1
1,4-Difluorobenzene (Surr)	113		70 - 130	02/11/24 13:30	02/13/24 07:01	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			02/13/24 07:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/11/24 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/06/24 14:12	02/11/24 14:02	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/06/24 14:12	02/11/24 14:02	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/06/24 14:12	02/11/24 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	37	S1-	70 - 130	02/06/24 14:12	02/11/24 14:02	1
o-Terphenyl	30	S1-	70 - 130	02/06/24 14:12	02/11/24 14:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	431		49.7		mg/Kg			02/08/24 06:29	10

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Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
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	DFBZ1
		(70-130)	(70-130)
880-38939-1	CS-1 (2')	107	105
880-38939-1 MS	CS-1 (2')	60 S1-	121
880-38939-1 MSD	CS-1 (2')	90	106
880-38939-2	CS-2 (2')	75	71
880-38939-3	CS-3 (2')	120	126
880-38939-4	CS-4 (2')	159 S1+	112
880-38939-5	CS-5 (2')	128	99
880-38939-6	CS-6 (3.5')	82	91
880-38939-7	CS-7 (4.5')	112	84
880-38939-8	CS-8 (4.5')	172 S1+	120
880-38939-9	CS-9 (4.5')	123	124
880-38939-10	CS-10 (4.5')	101	87
880-38939-11	CS-11 (4.5')	137 S1+	88
880-38939-12	CS-12 (4.5')	134 S1+	99
880-38939-13	CS-13 (4.5')	165 S1+	100
880-38939-14	CS-14 (4.5')	137 S1+	84
880-38939-15	CS-15 (1.5')	123	84
880-38939-16	CS-16 (1.5')	149 S1+	74
880-38939-17	SW-1 (2')	126	100
880-38939-18	SW-2 (2')	110	85
880-38939-19	SW-3 (2')	99	79
880-38939-20	SW-4 (2')	132 S1+	79
880-38939-21	SW-5 (2')	79	79
880-38939-21 MS	SW-5 (2')	87	74
880-38939-21 MSD	SW-5 (2')	78	85
880-38939-22	SW-6 (2')	85	81
880-38939-23	SW-7 (2')	99	73
880-38939-24	SW-8 (2')	86	77
880-38939-25	SW-9 (2')	85	73
880-38939-26	SW-10 (3.5')	83	77
880-38939-27	SW-11 (1.5')	94	71
880-38939-28	SW-12 (3.5')	86	79
880-38939-29	SW-13 (3.5')	88	79
880-38939-30	SW-14 (2')	80	78
880-38939-31	SW-15 (4.5')	81	80
880-38939-32	SW-16 (4.5')	87	79
880-38939-33	SW-17 (1.0')	83	82
880-38939-34	SW-18 (4.5')	83	84
880-38939-35	SW-19 (4.5')	83	81
880-38939-36	SW-20 (4.5')	82	83
880-38939-37	SW-21 (4.5')	83	82
880-38939-38	SW-22 (4.5')	85	81
880-38939-39	SW-23 (4.5')	83	85
880-38939-40	SW-24 (4.5')	89	86
880-38939-41	SW-25 (4.5')	195 S1+	119
880-38939-42	SW-26 (4.5')	105	110
880-38939-43	SW-27 (4.5')	105	110
880-38939-44	SW-28 (4.5')	107	103
880-38939-45	SW-29 (4.5')	194 S1+	125

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-38939-1

Project/Site: Southern Comfort 5 6 10 12

SDG: Eddy County, new Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38939-46	SW-30 (1.5')	107	114
880-38939-47	SW-31 (1.5')	83	107
880-38939-48	SW-32 (1.5')	100	115
880-38939-49	SW-33 (1.5')	111	113
890-6102-A-6-C MS	Matrix Spike	103	107
890-6102-A-6-D MSD	Matrix Spike Duplicate	105	106
LCS 880-72821/1-A	Lab Control Sample	102	101
LCS 880-72822/1-A	Lab Control Sample	117	96
LCS 880-72823/1-A	Lab Control Sample	107	108
LCSD 880-72821/2-A	Lab Control Sample Dup	95	99
LCSD 880-72822/2-A	Lab Control Sample Dup	134 S1+	97
LCSD 880-72823/2-A	Lab Control Sample Dup	110	97
MB 880-72819/5-A	Method Blank	84	109
MB 880-72821/5-A	Method Blank	127	130
MB 880-72822/5-A	Method Blank	69 S1-	77
MB 880-72823/5-A	Method Blank	74	82
MB 880-72837/5-A	Method Blank	118	122
MB 880-72840/5-A	Method Blank	70	88
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)
880-38939-1	CS-1 (2')	96	96
880-38939-1 MS	CS-1 (2')	78	72
880-38939-1 MSD	CS-1 (2')	73	67 S1-
880-38939-2	CS-2 (2')	93	94
880-38939-3	CS-3 (2')	78	83
880-38939-4	CS-4 (2')	91	94
880-38939-5	CS-5 (2')	85	86
880-38939-6	CS-6 (3.5')	82	84
880-38939-7	CS-7 (4.5')	79	77
880-38939-8	CS-8 (4.5')	29 S1-	19 S1-
880-38939-9	CS-9 (4.5')	51 S1-	50 S1-
880-38939-10	CS-10 (4.5')	84	86
880-38939-11	CS-11 (4.5')	93	97
880-38939-12	CS-12 (4.5')	92	95
880-38939-13	CS-13 (4.5')	85	89
880-38939-14	CS-14 (4.5')	75	78
880-38939-15	CS-15 (1.5')	78	77
880-38939-16	CS-16 (1.5')	73	75
880-38939-17	SW-1 (2')	74	77
880-38939-18	SW-2 (2')	90	89
880-38939-19	SW-3 (2')	86	91
880-38939-20	SW-4 (2')	65 S1-	71

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-38939-1

Project/Site: Southern Comfort 5 6 10 12

SDG: Eddy County, new Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38939-21	SW-5 (2')	70	73
880-38939-21 MS	SW-5 (2')	13 S1-	5 S1-
880-38939-21 MSD	SW-5 (2')	20 S1-	14 S1-
880-38939-22	SW-6 (2')	40 S1-	33 S1-
880-38939-23	SW-7 (2')	65 S1-	67 S1-
880-38939-24	SW-8 (2')	113	116
880-38939-25	SW-9 (2')	56 S1-	54 S1-
880-38939-26	SW-10 (3.5')	126	131 S1+
880-38939-27	SW-11 (1.5')	96	100
880-38939-28	SW-12 (3.5')	105	109
880-38939-29	SW-13 (3.5')	126	136 S1+
880-38939-30	SW-14 (2')	109	121
880-38939-31	SW-15 (4.5')	104	110
880-38939-32	SW-16 (4.5')	124	136 S1+
880-38939-33	SW-17 (1.0')	83	84
880-38939-34	SW-18 (4.5')	98	98
880-38939-35	SW-19 (4.5')	86	88
880-38939-36	SW-20 (4.5')	99	96
880-38939-37	SW-21 (4.5')	122	129
880-38939-38	SW-22 (4.5')	105	112
880-38939-39	SW-23 (4.5')	117	123
880-38939-40	SW-24 (4.5')	126	134 S1+
880-38939-41	SW-25 (4.5')	92	98
880-38939-41 MS	SW-25 (4.5')	109	100
880-38939-41 MSD	SW-25 (4.5')	88	80
880-38939-42	SW-26 (4.5')	111	112
880-38939-43	SW-27 (4.5')	90	94
880-38939-44	SW-28 (4.5')	92	98
880-38939-45	SW-29 (4.5')	117	123
880-38939-46	SW-30 (1.5')	84	82
880-38939-47	SW-31 (1.5')	87	87
880-38939-48	SW-32 (1.5')	60 S1-	56 S1-
880-38939-49	SW-33 (1.5')	37 S1-	30 S1-
LCS 880-72508/2-A	Lab Control Sample	107	105
LCS 880-72517/2-A	Lab Control Sample	108	110
LCS 880-72518/2-A	Lab Control Sample	117	113
LCSD 880-72508/3-A	Lab Control Sample Dup	115	112
LCSD 880-72517/3-A	Lab Control Sample Dup	101	100
LCSD 880-72518/3-A	Lab Control Sample Dup	128	124
MB 880-72508/1-A	Method Blank	197 S1+	213 S1+
MB 880-72517/1-A	Method Blank	195 S1+	220 S1+
MB 880-72518/1-A	Method Blank	171 S1+	184 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72819/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 72833							Prep Batch: 72819		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:26	02/12/24 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:26	02/12/24 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:26	02/12/24 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/24 13:26	02/12/24 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:26	02/12/24 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/24 13:26	02/12/24 11:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				02/11/24 13:26	02/12/24 11:49	1
1,4-Difluorobenzene (Surr)	109		70 - 130				02/11/24 13:26	02/12/24 11:49	1

Lab Sample ID: MB 880-72821/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 72835							Prep Batch: 72821		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 00:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 00:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 00:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/24 13:30	02/13/24 00:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:30	02/13/24 00:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/24 13:30	02/13/24 00:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				02/11/24 13:30	02/13/24 00:57	1
1,4-Difluorobenzene (Surr)	130		70 - 130				02/11/24 13:30	02/13/24 00:57	1

Lab Sample ID: LCS 880-72821/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 72835							Prep Batch: 72821		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.09626		mg/Kg		96	70 - 130		
Toluene	0.100	0.09713		mg/Kg		97	70 - 130		
Ethylbenzene	0.100	0.08842		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene	0.200	0.2090		mg/Kg		104	70 - 130		
o-Xylene	0.100	0.09157		mg/Kg		92	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: LCSD 880-72821/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 72835							Prep Batch: 72821		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09743		mg/Kg		97	70 - 130	1	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: LCSD 880-72821/2-A

Matrix: Solid

Analysis Batch: 72835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72821

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.09577		mg/Kg		96	70 - 130		1	35
Ethylbenzene	0.100	0.09049		mg/Kg		90	70 - 130		2	35
m-Xylene & p-Xylene	0.200	0.2036		mg/Kg		102	70 - 130		3	35
o-Xylene	0.100	0.08994		mg/Kg		90	70 - 130		2	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-6102-A-6-C MS

Matrix: Solid

Analysis Batch: 72835

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 72821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00200	U F1	0.0996	0.06796	F1	mg/Kg		68	70 - 130	
Toluene	<0.00200	U F1	0.0996	0.06838	F1	mg/Kg		69	70 - 130	
Ethylbenzene	<0.00200	U F1	0.0996	0.05975	F1	mg/Kg		60	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1426		mg/Kg		72	70 - 130	
o-Xylene	<0.00200	U F1	0.0996	0.07199		mg/Kg		72	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-6102-A-6-D MSD

Matrix: Solid

Analysis Batch: 72835

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 72821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00200	U F1	0.0990	0.06864	F1	mg/Kg		69	70 - 130		1	35
Toluene	<0.00200	U F1	0.0990	0.06759	F1	mg/Kg		68	70 - 130		1	35
Ethylbenzene	<0.00200	U F1	0.0990	0.06441	F1	mg/Kg		65	70 - 130		7	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1530		mg/Kg		77	70 - 130		7	35
o-Xylene	<0.00200	U F1	0.0990	0.06881	F1	mg/Kg		69	70 - 130		5	35

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

Lab Sample ID: MB 880-72822/5-A

Matrix: Solid

Analysis Batch: 72833

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72822

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 01:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 01:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 01:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/24 13:32	02/13/24 01:29	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: MB 880-72822/5-A

Matrix: Solid

Analysis Batch: 72833

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72822

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:32	02/13/24 01:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/24 13:32	02/13/24 01:29	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130				02/11/24 13:32	02/13/24 01:29	1
1,4-Difluorobenzene (Surr)	77		70 - 130				02/11/24 13:32	02/13/24 01:29	1

Lab Sample ID: LCS 880-72822/1-A

Matrix: Solid

Analysis Batch: 72833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72822

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits		
		Result	Qualifier						
Benzene	0.100	0.09064		mg/Kg		91	70 - 130		
Toluene	0.100	0.07973		mg/Kg		80	70 - 130		
Ethylbenzene	0.100	0.08230		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene	0.200	0.1919		mg/Kg		96	70 - 130		
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130		
Surrogate	LCS	LCS	Limits				%Recovery	Qualifier	
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	117		70 - 130						
1,4-Difluorobenzene (Surr)	96		70 - 130						

Lab Sample ID: LCSD 880-72822/2-A

Matrix: Solid

Analysis Batch: 72833

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72822

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Benzene	0.100	0.08675		mg/Kg		87	70 - 130	4	35
Toluene	0.100	0.07980		mg/Kg		80	70 - 130	0	35
Ethylbenzene	0.100	0.09019		mg/Kg		90	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1812		mg/Kg		91	70 - 130	6	35
o-Xylene	0.100	0.08241		mg/Kg		82	70 - 130	23	35
Surrogate	LCSD	LCSD	Limits				%Recovery	Qualifier	
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 880-38939-1 MS

Matrix: Solid

Analysis Batch: 72833

Client Sample ID: CS-1 (2')

Prep Type: Total/NA

Prep Batch: 72822

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U F1	0.0996	0.04564	F1	mg/Kg		46	70 - 130		
Toluene	<0.00200	U F2 F1	0.0996	0.01930	F1	mg/Kg		19	70 - 130		
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.02706	F1	mg/Kg		27	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.199	0.04369	F1	mg/Kg		22	70 - 130		
o-Xylene	<0.00200	U F2 F1	0.0996	0.02525	F1	mg/Kg		25	70 - 130		

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: 880-38939-1 MS

Matrix: Solid

Analysis Batch: 72833

Client Sample ID: CS-1 (2')

Prep Type: Total/NA

Prep Batch: 72822

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: 880-38939-1 MSD

Matrix: Solid

Analysis Batch: 72833

Client Sample ID: CS-1 (2')

Prep Type: Total/NA

Prep Batch: 72822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	0.04586	F1	mg/Kg		46	70 - 130	0	35
Toluene	<0.00200	U F2 F1	0.0990	0.07352	F2	mg/Kg		74	70 - 130	117	35
Ethylbenzene	<0.00200	U F2 F1	0.0990	0.05040	F2 F1	mg/Kg		51	70 - 130	60	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.198	0.1044	F2 F1	mg/Kg		53	70 - 130	82	35
o-Xylene	<0.00200	U F2 F1	0.0990	0.06720	F2 F1	mg/Kg		68	70 - 130	91	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-72823/5-A

Matrix: Solid

Analysis Batch: 72834

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/12/24 23:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/12/24 23:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/12/24 23:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/24 13:34	02/12/24 23:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/24 13:34	02/12/24 23:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/24 13:34	02/12/24 23:42	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	02/11/24 13:34	02/12/24 23:42	1
1,4-Difluorobenzene (Surr)	82		70 - 130	02/11/24 13:34	02/12/24 23:42	1

Lab Sample ID: LCS 880-72823/1-A

Matrix: Solid

Analysis Batch: 72834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1177		mg/Kg		118	70 - 130
Toluene	0.100	0.1033		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2143		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: LCS 880-72823/1-A
Matrix: Solid
Analysis Batch: 72834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72823

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

Lab Sample ID: LCSD 880-72823/2-A
Matrix: Solid
Analysis Batch: 72834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1092		mg/Kg		109	70 - 130	8	35
Toluene	0.100	0.1104		mg/Kg		110	70 - 130	7	35
Ethylbenzene	0.100	0.1223		mg/Kg		122	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2448		mg/Kg		122	70 - 130	13	35
o-Xylene	0.100	0.1207		mg/Kg		121	70 - 130	15	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-38939-21 MS
Matrix: Solid
Analysis Batch: 72834

Client Sample ID: SW-5 (2')
Prep Type: Total/NA
Prep Batch: 72823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0996	0.03058	F1	mg/Kg		31	70 - 130
Toluene	<0.00200	U F1	0.0996	0.03960	F1	mg/Kg		40	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.03783	F1	mg/Kg		38	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.07262	F1	mg/Kg		36	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.03911	F1	mg/Kg		39	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: 880-38939-21 MSD
Matrix: Solid
Analysis Batch: 72834

Client Sample ID: SW-5 (2')
Prep Type: Total/NA
Prep Batch: 72823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	0.02748	F1	mg/Kg		28	70 - 130	11	35
Toluene	<0.00200	U F1	0.0990	0.03119	F1	mg/Kg		32	70 - 130	24	35
Ethylbenzene	<0.00200	U F1	0.0990	0.02894	F1	mg/Kg		29	70 - 130	27	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.05766	F1	mg/Kg		29	70 - 130	23	35
o-Xylene	<0.00200	U F1	0.0990	0.03068	F1	mg/Kg		31	70 - 130	24	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: MB 880-72837/5-A

Matrix: Solid

Analysis Batch: 72835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/12/24 08:41	02/12/24 13:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/12/24 08:41	02/12/24 13:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/12/24 08:41	02/12/24 13:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/12/24 08:41	02/12/24 13:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/24 08:41	02/12/24 13:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/12/24 08:41	02/12/24 13:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/12/24 08:41	02/12/24 13:20	1
1,4-Difluorobenzene (Surr)	122		70 - 130	02/12/24 08:41	02/12/24 13:20	1

Lab Sample ID: MB 880-72840/5-A

Matrix: Solid

Analysis Batch: 72834

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/12/24 08:43	02/12/24 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/12/24 08:43	02/12/24 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/12/24 08:43	02/12/24 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/12/24 08:43	02/12/24 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/24 08:43	02/12/24 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/12/24 08:43	02/12/24 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	02/12/24 08:43	02/12/24 11:25	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/12/24 08:43	02/12/24 11:25	1

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

Lab Sample ID: MB 880-72508/1-A

Matrix: Solid

Analysis Batch: 72825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72508

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		02/06/24 14:02	02/12/24 07:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/06/24 14:02	02/12/24 07:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/24 14:02	02/12/24 07:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	197	S1+	70 - 130	02/06/24 14:02	02/12/24 07:25	1
o-Terphenyl	213	S1+	70 - 130	02/06/24 14:02	02/12/24 07:25	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: LCS 880-72508/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 72825				Prep Batch: 72508						
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	893.3		mg/Kg		89	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	929.8		mg/Kg		93	70 - 130	
Surrogate		LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane		107		70 - 130						
o-Terphenyl		105		70 - 130						

Lab Sample ID: LCSD 880-72508/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 72825				Prep Batch: 72508						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	946.6		mg/Kg		95	70 - 130	6 20
Diesel Range Organics (Over C10-C28)			1000	1002		mg/Kg		100	70 - 130	7 20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane		115		70 - 130						
o-Terphenyl		112		70 - 130						

Lab Sample ID: 880-38939-1 MS				Client Sample ID: CS-1 (2')						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 72825				Prep Batch: 72508						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1186		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	786.8		mg/Kg		75	70 - 130	
Surrogate		MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane		78		70 - 130						
o-Terphenyl		72		70 - 130						

Lab Sample ID: 880-38939-1 MSD				Client Sample ID: CS-1 (2')						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 72825				Prep Batch: 72508						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1130		mg/Kg		108	70 - 130	5 20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	729.4	F1	mg/Kg		69	70 - 130	8 20
Surrogate		MSD %Recovery	MSD Qualifier	Limits						
1-Chlorooctane		73		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: 880-38939-1 MSD

Matrix: Solid

Analysis Batch: 72825

Client Sample ID: CS-1 (2')

Prep Type: Total/NA

Prep Batch: 72508

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	67	S1-	70 - 130

Lab Sample ID: MB 880-72517/1-A

Matrix: Solid

Analysis Batch: 72825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72517

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/06/24 14:09	02/12/24 18:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/06/24 14:09	02/12/24 18:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/24 14:09	02/12/24 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	195	S1+	70 - 130				02/06/24 14:09	02/12/24 18:55	1
<i>o</i> -Terphenyl	220	S1+	70 - 130				02/06/24 14:09	02/12/24 18:55	1

Lab Sample ID: LCS 880-72517/2-A

Matrix: Solid

Analysis Batch: 72825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	903.6		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	976.6		mg/Kg		98	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	108		70 - 130				
<i>o</i> -Terphenyl	110		70 - 130				

Lab Sample ID: LCSD 880-72517/3-A

Matrix: Solid

Analysis Batch: 72825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	866.6		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	903.4		mg/Kg		90	70 - 130	8	20
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	101		70 - 130						
<i>o</i> -Terphenyl	100		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: 880-38939-21 MS

Matrix: Solid

Analysis Batch: 72825

Client Sample ID: SW-5 (2')

Prep Type: Total/NA

Prep Batch: 72517

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1000	265.1	F1	mg/Kg		22	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	1000	78.27	F1	mg/Kg		5	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	13	S1-	70 - 130								
o-Terphenyl	5	S1-	70 - 130								

Lab Sample ID: 880-38939-21 MSD

Matrix: Solid

Analysis Batch: 72825

Client Sample ID: SW-5 (2')

Prep Type: Total/NA

Prep Batch: 72517

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1000	306.3	F1	mg/Kg		27	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	1000	155.4	F1 F2	mg/Kg		12	70 - 130	66	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	20	S1-	70 - 130								
o-Terphenyl	14	S1-	70 - 130								

Lab Sample ID: MB 880-72518/1-A

Matrix: Solid

Analysis Batch: 72814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72518

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/06/24 14:12	02/11/24 07:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/06/24 14:12	02/11/24 07:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/24 14:12	02/11/24 07:47	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	171	S1+	70 - 130				02/06/24 14:12	02/11/24 07:47	1
o-Terphenyl	184	S1+	70 - 130				02/06/24 14:12	02/11/24 07:47	1

Lab Sample ID: LCS 880-72518/2-A

Matrix: Solid

Analysis Batch: 72814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72518

Analyte	Spike	LCS	Unit	D	%Rec	%Rec
	Added	Result				Qualifier
Gasoline Range Organics (GRO)-C6-C10	1000	988.2	mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1013	mg/Kg		101	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

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

Lab Sample ID: LCS 880-72518/2-A
Matrix: Solid
Analysis Batch: 72814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72518

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-72518/3-A
Matrix: Solid
Analysis Batch: 72814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72518

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1134		mg/Kg		113	70 - 130	11	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	128										
o-Terphenyl	124										

Lab Sample ID: 880-38939-41 MS
Matrix: Solid
Analysis Batch: 72814

Client Sample ID: SW-25 (4.5')
Prep Type: Total/NA
Prep Batch: 72518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F2	1000	1100		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F2	1000	1017		mg/Kg		99	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	109										
o-Terphenyl	100										

Lab Sample ID: 880-38939-41 MSD
Matrix: Solid
Analysis Batch: 72814

Client Sample ID: SW-25 (4.5')
Prep Type: Total/NA
Prep Batch: 72518

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	<49.8	U F2	1000	890.6	F2	mg/Kg		85	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.8	U F2	1000	825.7	F2	mg/Kg		80	70 - 130	21	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	88										
o-Terphenyl	80										

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72454/1-A Matrix: Solid Analysis Batch: 72559										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			02/07/24 22:06	1		
Lab Sample ID: LCS 880-72454/2-A Matrix: Solid Analysis Batch: 72559										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.7		mg/Kg		103	90 - 110		
Lab Sample ID: LCSD 880-72454/3-A Matrix: Solid Analysis Batch: 72559										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	257.5		mg/Kg		103	90 - 110	0	20
Lab Sample ID: 880-38939-10 MS Matrix: Solid Analysis Batch: 72559										Client Sample ID: CS-10 (4.5') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	523		2500	3183		mg/Kg		107	90 - 110		
Lab Sample ID: 880-38939-10 MSD Matrix: Solid Analysis Batch: 72559										Client Sample ID: CS-10 (4.5') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	523		2500	3182		mg/Kg		107	90 - 110	0	20
Lab Sample ID: MB 880-72455/1-A Matrix: Solid Analysis Batch: 72561										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			02/07/24 19:24	1		
Lab Sample ID: LCS 880-72455/2-A Matrix: Solid Analysis Batch: 72561										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.8		mg/Kg		103	90 - 110		
Lab Sample ID: LCSD 880-72455/3-A Matrix: Solid Analysis Batch: 72561										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	259.6		mg/Kg		104	90 - 110	1	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-38939-12 MS

Matrix: Solid

Analysis Batch: 72561

Client Sample ID: CS-12 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	393	F1	2490	3215	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-38939-12 MSD

Matrix: Solid

Analysis Batch: 72561

Client Sample ID: CS-12 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	393	F1	2490	3179	F1	mg/Kg		112	90 - 110	1	20

Lab Sample ID: 880-38939-22 MS

Matrix: Solid

Analysis Batch: 72561

Client Sample ID: SW-6 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	368		250	594.4		mg/Kg		91	90 - 110		

Lab Sample ID: 880-38939-22 MSD

Matrix: Solid

Analysis Batch: 72561

Client Sample ID: SW-6 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	368		250	597.7		mg/Kg		92	90 - 110	1	20

Lab Sample ID: MB 880-72456/1-A

Matrix: Solid

Analysis Batch: 72562

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			02/08/24 03:24	1

Lab Sample ID: LCS 880-72456/2-A

Matrix: Solid

Analysis Batch: 72562

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride		250	257.6		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-72456/3-A

Matrix: Solid

Analysis Batch: 72562

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	256.3		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-38939-32 MS

Matrix: Solid

Analysis Batch: 72562

Client Sample ID: SW-16 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1030		2490	3377		mg/Kg		94	90 - 110		

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-38939-32 MSD										Client Sample ID: SW-16 (4.5')		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 72562												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	1030		2490	3387		mg/Kg		95	90 - 110	0	20	

Lab Sample ID: 880-38939-42 MS										Client Sample ID: SW-26 (4.5')		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 72562												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	583		2520	2972		mg/Kg		95	90 - 110			

Lab Sample ID: 880-38939-42 MSD										Client Sample ID: SW-26 (4.5')		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 72562												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	583		2490	2948		mg/Kg		95	90 - 110	1	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

GC VOA

Prep Batch: 72819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72819/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 72821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-41	SW-25 (4.5')	Total/NA	Solid	5035	
880-38939-42	SW-26 (4.5')	Total/NA	Solid	5035	
880-38939-43	SW-27 (4.5')	Total/NA	Solid	5035	
880-38939-44	SW-28 (4.5')	Total/NA	Solid	5035	
880-38939-45	SW-29 (4.5')	Total/NA	Solid	5035	
880-38939-46	SW-30 (1.5')	Total/NA	Solid	5035	
880-38939-47	SW-31 (1.5')	Total/NA	Solid	5035	
880-38939-48	SW-32 (1.5')	Total/NA	Solid	5035	
880-38939-49	SW-33 (1.5')	Total/NA	Solid	5035	
MB 880-72821/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72821/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72821/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6102-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6102-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 72822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1	CS-1 (2')	Total/NA	Solid	5035	
880-38939-2	CS-2 (2')	Total/NA	Solid	5035	
880-38939-3	CS-3 (2')	Total/NA	Solid	5035	
880-38939-4	CS-4 (2')	Total/NA	Solid	5035	
880-38939-5	CS-5 (2')	Total/NA	Solid	5035	
880-38939-6	CS-6 (3.5')	Total/NA	Solid	5035	
880-38939-7	CS-7 (4.5')	Total/NA	Solid	5035	
880-38939-8	CS-8 (4.5')	Total/NA	Solid	5035	
880-38939-9	CS-9 (4.5')	Total/NA	Solid	5035	
880-38939-10	CS-10 (4.5')	Total/NA	Solid	5035	
880-38939-11	CS-11 (4.5')	Total/NA	Solid	5035	
880-38939-12	CS-12 (4.5')	Total/NA	Solid	5035	
880-38939-13	CS-13 (4.5')	Total/NA	Solid	5035	
880-38939-14	CS-14 (4.5')	Total/NA	Solid	5035	
880-38939-15	CS-15 (1.5')	Total/NA	Solid	5035	
880-38939-16	CS-16 (1.5')	Total/NA	Solid	5035	
880-38939-17	SW-1 (2')	Total/NA	Solid	5035	
880-38939-18	SW-2 (2')	Total/NA	Solid	5035	
880-38939-19	SW-3 (2')	Total/NA	Solid	5035	
880-38939-20	SW-4 (2')	Total/NA	Solid	5035	
MB 880-72822/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72822/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72822/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38939-1 MS	CS-1 (2')	Total/NA	Solid	5035	
880-38939-1 MSD	CS-1 (2')	Total/NA	Solid	5035	

Prep Batch: 72823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-21	SW-5 (2')	Total/NA	Solid	5035	
880-38939-22	SW-6 (2')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

GC VOA (Continued)

Prep Batch: 72823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-23	SW-7 (2')	Total/NA	Solid	5035	
880-38939-24	SW-8 (2')	Total/NA	Solid	5035	
880-38939-25	SW-9 (2')	Total/NA	Solid	5035	
880-38939-26	SW-10 (3.5')	Total/NA	Solid	5035	
880-38939-27	SW-11 (1.5')	Total/NA	Solid	5035	
880-38939-28	SW-12 (3.5')	Total/NA	Solid	5035	
880-38939-29	SW-13 (3.5')	Total/NA	Solid	5035	
880-38939-30	SW-14 (2')	Total/NA	Solid	5035	
880-38939-31	SW-15 (4.5')	Total/NA	Solid	5035	
880-38939-32	SW-16 (4.5')	Total/NA	Solid	5035	
880-38939-33	SW-17 (1.0')	Total/NA	Solid	5035	
880-38939-34	SW-18 (4.5')	Total/NA	Solid	5035	
880-38939-35	SW-19 (4.5')	Total/NA	Solid	5035	
880-38939-36	SW-20 (4.5')	Total/NA	Solid	5035	
880-38939-37	SW-21 (4.5')	Total/NA	Solid	5035	
880-38939-38	SW-22 (4.5')	Total/NA	Solid	5035	
880-38939-39	SW-23 (4.5')	Total/NA	Solid	5035	
880-38939-40	SW-24 (4.5')	Total/NA	Solid	5035	
MB 880-72823/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72823/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72823/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38939-21 MS	SW-5 (2')	Total/NA	Solid	5035	
880-38939-21 MSD	SW-5 (2')	Total/NA	Solid	5035	

Analysis Batch: 72833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1	CS-1 (2')	Total/NA	Solid	8021B	72822
880-38939-2	CS-2 (2')	Total/NA	Solid	8021B	72822
880-38939-3	CS-3 (2')	Total/NA	Solid	8021B	72822
880-38939-4	CS-4 (2')	Total/NA	Solid	8021B	72822
880-38939-5	CS-5 (2')	Total/NA	Solid	8021B	72822
880-38939-6	CS-6 (3.5')	Total/NA	Solid	8021B	72822
880-38939-7	CS-7 (4.5')	Total/NA	Solid	8021B	72822
880-38939-8	CS-8 (4.5')	Total/NA	Solid	8021B	72822
880-38939-9	CS-9 (4.5')	Total/NA	Solid	8021B	72822
880-38939-10	CS-10 (4.5')	Total/NA	Solid	8021B	72822
880-38939-11	CS-11 (4.5')	Total/NA	Solid	8021B	72822
880-38939-12	CS-12 (4.5')	Total/NA	Solid	8021B	72822
880-38939-13	CS-13 (4.5')	Total/NA	Solid	8021B	72822
880-38939-14	CS-14 (4.5')	Total/NA	Solid	8021B	72822
880-38939-15	CS-15 (1.5')	Total/NA	Solid	8021B	72822
880-38939-16	CS-16 (1.5')	Total/NA	Solid	8021B	72822
880-38939-17	SW-1 (2')	Total/NA	Solid	8021B	72822
880-38939-18	SW-2 (2')	Total/NA	Solid	8021B	72822
880-38939-19	SW-3 (2')	Total/NA	Solid	8021B	72822
880-38939-20	SW-4 (2')	Total/NA	Solid	8021B	72822
MB 880-72819/5-A	Method Blank	Total/NA	Solid	8021B	72819
MB 880-72822/5-A	Method Blank	Total/NA	Solid	8021B	72822
LCS 880-72822/1-A	Lab Control Sample	Total/NA	Solid	8021B	72822
LCSD 880-72822/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72822
880-38939-1 MS	CS-1 (2')	Total/NA	Solid	8021B	72822

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

GC VOA (Continued)

Analysis Batch: 72833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1 MSD	CS-1 (2')	Total/NA	Solid	8021B	72822

Analysis Batch: 72834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-21	SW-5 (2')	Total/NA	Solid	8021B	72823
880-38939-22	SW-6 (2')	Total/NA	Solid	8021B	72823
880-38939-23	SW-7 (2')	Total/NA	Solid	8021B	72823
880-38939-24	SW-8 (2')	Total/NA	Solid	8021B	72823
880-38939-25	SW-9 (2')	Total/NA	Solid	8021B	72823
880-38939-26	SW-10 (3.5')	Total/NA	Solid	8021B	72823
880-38939-27	SW-11 (1.5')	Total/NA	Solid	8021B	72823
880-38939-28	SW-12 (3.5')	Total/NA	Solid	8021B	72823
880-38939-29	SW-13 (3.5')	Total/NA	Solid	8021B	72823
880-38939-30	SW-14 (2')	Total/NA	Solid	8021B	72823
880-38939-31	SW-15 (4.5')	Total/NA	Solid	8021B	72823
880-38939-32	SW-16 (4.5')	Total/NA	Solid	8021B	72823
880-38939-33	SW-17 (1.0')	Total/NA	Solid	8021B	72823
880-38939-34	SW-18 (4.5')	Total/NA	Solid	8021B	72823
880-38939-35	SW-19 (4.5')	Total/NA	Solid	8021B	72823
880-38939-36	SW-20 (4.5')	Total/NA	Solid	8021B	72823
880-38939-37	SW-21 (4.5')	Total/NA	Solid	8021B	72823
880-38939-38	SW-22 (4.5')	Total/NA	Solid	8021B	72823
880-38939-39	SW-23 (4.5')	Total/NA	Solid	8021B	72823
880-38939-40	SW-24 (4.5')	Total/NA	Solid	8021B	72823
MB 880-72823/5-A	Method Blank	Total/NA	Solid	8021B	72823
MB 880-72840/5-A	Method Blank	Total/NA	Solid	8021B	72840
LCS 880-72823/1-A	Lab Control Sample	Total/NA	Solid	8021B	72823
LCSD 880-72823/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72823
880-38939-21 MS	SW-5 (2')	Total/NA	Solid	8021B	72823
880-38939-21 MSD	SW-5 (2')	Total/NA	Solid	8021B	72823

Analysis Batch: 72835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-41	SW-25 (4.5')	Total/NA	Solid	8021B	72821
880-38939-42	SW-26 (4.5')	Total/NA	Solid	8021B	72821
880-38939-43	SW-27 (4.5')	Total/NA	Solid	8021B	72821
880-38939-44	SW-28 (4.5')	Total/NA	Solid	8021B	72821
880-38939-45	SW-29 (4.5')	Total/NA	Solid	8021B	72821
880-38939-46	SW-30 (1.5')	Total/NA	Solid	8021B	72821
880-38939-47	SW-31 (1.5')	Total/NA	Solid	8021B	72821
880-38939-48	SW-32 (1.5')	Total/NA	Solid	8021B	72821
880-38939-49	SW-33 (1.5')	Total/NA	Solid	8021B	72821
MB 880-72821/5-A	Method Blank	Total/NA	Solid	8021B	72821
MB 880-72837/5-A	Method Blank	Total/NA	Solid	8021B	72837
LCS 880-72821/1-A	Lab Control Sample	Total/NA	Solid	8021B	72821
LCSD 880-72821/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72821
890-6102-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	72821
890-6102-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72821

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

GC VOA

Prep Batch: 72837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72837/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 72840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72840/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 72989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1	CS-1 (2')	Total/NA	Solid	Total BTEX	
880-38939-2	CS-2 (2')	Total/NA	Solid	Total BTEX	
880-38939-3	CS-3 (2')	Total/NA	Solid	Total BTEX	
880-38939-4	CS-4 (2')	Total/NA	Solid	Total BTEX	
880-38939-5	CS-5 (2')	Total/NA	Solid	Total BTEX	
880-38939-6	CS-6 (3.5')	Total/NA	Solid	Total BTEX	
880-38939-7	CS-7 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-8	CS-8 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-9	CS-9 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-10	CS-10 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-11	CS-11 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-12	CS-12 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-13	CS-13 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-14	CS-14 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-15	CS-15 (1.5')	Total/NA	Solid	Total BTEX	
880-38939-16	CS-16 (1.5')	Total/NA	Solid	Total BTEX	
880-38939-17	SW-1 (2')	Total/NA	Solid	Total BTEX	
880-38939-18	SW-2 (2')	Total/NA	Solid	Total BTEX	
880-38939-19	SW-3 (2')	Total/NA	Solid	Total BTEX	
880-38939-20	SW-4 (2')	Total/NA	Solid	Total BTEX	
880-38939-21	SW-5 (2')	Total/NA	Solid	Total BTEX	
880-38939-22	SW-6 (2')	Total/NA	Solid	Total BTEX	
880-38939-23	SW-7 (2')	Total/NA	Solid	Total BTEX	
880-38939-24	SW-8 (2')	Total/NA	Solid	Total BTEX	
880-38939-25	SW-9 (2')	Total/NA	Solid	Total BTEX	
880-38939-26	SW-10 (3.5')	Total/NA	Solid	Total BTEX	
880-38939-27	SW-11 (1.5')	Total/NA	Solid	Total BTEX	
880-38939-28	SW-12 (3.5')	Total/NA	Solid	Total BTEX	
880-38939-29	SW-13 (3.5')	Total/NA	Solid	Total BTEX	
880-38939-30	SW-14 (2')	Total/NA	Solid	Total BTEX	
880-38939-31	SW-15 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-32	SW-16 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-33	SW-17 (1.0')	Total/NA	Solid	Total BTEX	
880-38939-34	SW-18 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-35	SW-19 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-36	SW-20 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-37	SW-21 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-38	SW-22 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-39	SW-23 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-40	SW-24 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-41	SW-25 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-42	SW-26 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-43	SW-27 (4.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

GC VOA (Continued)

Analysis Batch: 72989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-44	SW-28 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-45	SW-29 (4.5')	Total/NA	Solid	Total BTEX	
880-38939-46	SW-30 (1.5')	Total/NA	Solid	Total BTEX	
880-38939-47	SW-31 (1.5')	Total/NA	Solid	Total BTEX	
880-38939-48	SW-32 (1.5')	Total/NA	Solid	Total BTEX	
880-38939-49	SW-33 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 72508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1	CS-1 (2')	Total/NA	Solid	8015NM Prep	
880-38939-2	CS-2 (2')	Total/NA	Solid	8015NM Prep	
880-38939-3	CS-3 (2')	Total/NA	Solid	8015NM Prep	
880-38939-4	CS-4 (2')	Total/NA	Solid	8015NM Prep	
880-38939-5	CS-5 (2')	Total/NA	Solid	8015NM Prep	
880-38939-6	CS-6 (3.5')	Total/NA	Solid	8015NM Prep	
880-38939-7	CS-7 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-8	CS-8 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-9	CS-9 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-10	CS-10 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-11	CS-11 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-12	CS-12 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-13	CS-13 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-14	CS-14 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-15	CS-15 (1.5')	Total/NA	Solid	8015NM Prep	
880-38939-16	CS-16 (1.5')	Total/NA	Solid	8015NM Prep	
880-38939-17	SW-1 (2')	Total/NA	Solid	8015NM Prep	
880-38939-18	SW-2 (2')	Total/NA	Solid	8015NM Prep	
880-38939-19	SW-3 (2')	Total/NA	Solid	8015NM Prep	
880-38939-20	SW-4 (2')	Total/NA	Solid	8015NM Prep	
MB 880-72508/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72508/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72508/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38939-1 MS	CS-1 (2')	Total/NA	Solid	8015NM Prep	
880-38939-1 MSD	CS-1 (2')	Total/NA	Solid	8015NM Prep	

Prep Batch: 72517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-21	SW-5 (2')	Total/NA	Solid	8015NM Prep	
880-38939-22	SW-6 (2')	Total/NA	Solid	8015NM Prep	
880-38939-23	SW-7 (2')	Total/NA	Solid	8015NM Prep	
880-38939-24	SW-8 (2')	Total/NA	Solid	8015NM Prep	
880-38939-25	SW-9 (2')	Total/NA	Solid	8015NM Prep	
880-38939-26	SW-10 (3.5')	Total/NA	Solid	8015NM Prep	
880-38939-27	SW-11 (1.5')	Total/NA	Solid	8015NM Prep	
880-38939-28	SW-12 (3.5')	Total/NA	Solid	8015NM Prep	
880-38939-29	SW-13 (3.5')	Total/NA	Solid	8015NM Prep	
880-38939-30	SW-14 (2')	Total/NA	Solid	8015NM Prep	
880-38939-31	SW-15 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-32	SW-16 (4.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

GC Semi VOA (Continued)

Prep Batch: 72517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-33	SW-17 (1.0')	Total/NA	Solid	8015NM Prep	
880-38939-34	SW-18 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-35	SW-19 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-36	SW-20 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-37	SW-21 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-38	SW-22 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-39	SW-23 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-40	SW-24 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-72517/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72517/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72517/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38939-21 MS	SW-5 (2')	Total/NA	Solid	8015NM Prep	
880-38939-21 MSD	SW-5 (2')	Total/NA	Solid	8015NM Prep	

Prep Batch: 72518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-41	SW-25 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-42	SW-26 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-43	SW-27 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-44	SW-28 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-45	SW-29 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-46	SW-30 (1.5')	Total/NA	Solid	8015NM Prep	
880-38939-47	SW-31 (1.5')	Total/NA	Solid	8015NM Prep	
880-38939-48	SW-32 (1.5')	Total/NA	Solid	8015NM Prep	
880-38939-49	SW-33 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-72518/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72518/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72518/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38939-41 MS	SW-25 (4.5')	Total/NA	Solid	8015NM Prep	
880-38939-41 MSD	SW-25 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-41	SW-25 (4.5')	Total/NA	Solid	8015B NM	72518
880-38939-42	SW-26 (4.5')	Total/NA	Solid	8015B NM	72518
880-38939-43	SW-27 (4.5')	Total/NA	Solid	8015B NM	72518
880-38939-44	SW-28 (4.5')	Total/NA	Solid	8015B NM	72518
880-38939-45	SW-29 (4.5')	Total/NA	Solid	8015B NM	72518
880-38939-46	SW-30 (1.5')	Total/NA	Solid	8015B NM	72518
880-38939-47	SW-31 (1.5')	Total/NA	Solid	8015B NM	72518
880-38939-48	SW-32 (1.5')	Total/NA	Solid	8015B NM	72518
880-38939-49	SW-33 (1.5')	Total/NA	Solid	8015B NM	72518
MB 880-72518/1-A	Method Blank	Total/NA	Solid	8015B NM	72518
LCS 880-72518/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72518
LCSD 880-72518/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72518
880-38939-41 MS	SW-25 (4.5')	Total/NA	Solid	8015B NM	72518
880-38939-41 MSD	SW-25 (4.5')	Total/NA	Solid	8015B NM	72518

Analysis Batch: 72825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1	CS-1 (2')	Total/NA	Solid	8015B NM	72508

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-38939-1

Project/Site: Southern Comfort 5 6 10 12

SDG: Eddy County, new Mexico

GC Semi VOA (Continued)

Analysis Batch: 72825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-2	CS-2 (2')	Total/NA	Solid	8015B NM	72508
880-38939-3	CS-3 (2')	Total/NA	Solid	8015B NM	72508
880-38939-4	CS-4 (2')	Total/NA	Solid	8015B NM	72508
880-38939-5	CS-5 (2')	Total/NA	Solid	8015B NM	72508
880-38939-6	CS-6 (3.5')	Total/NA	Solid	8015B NM	72508
880-38939-7	CS-7 (4.5')	Total/NA	Solid	8015B NM	72508
880-38939-8	CS-8 (4.5')	Total/NA	Solid	8015B NM	72508
880-38939-9	CS-9 (4.5')	Total/NA	Solid	8015B NM	72508
880-38939-10	CS-10 (4.5')	Total/NA	Solid	8015B NM	72508
880-38939-11	CS-11 (4.5')	Total/NA	Solid	8015B NM	72508
880-38939-12	CS-12 (4.5')	Total/NA	Solid	8015B NM	72508
880-38939-13	CS-13 (4.5')	Total/NA	Solid	8015B NM	72508
880-38939-14	CS-14 (4.5')	Total/NA	Solid	8015B NM	72508
880-38939-15	CS-15 (1.5')	Total/NA	Solid	8015B NM	72508
880-38939-16	CS-16 (1.5')	Total/NA	Solid	8015B NM	72508
880-38939-17	SW-1 (2')	Total/NA	Solid	8015B NM	72508
880-38939-18	SW-2 (2')	Total/NA	Solid	8015B NM	72508
880-38939-19	SW-3 (2')	Total/NA	Solid	8015B NM	72508
880-38939-20	SW-4 (2')	Total/NA	Solid	8015B NM	72508
880-38939-21	SW-5 (2')	Total/NA	Solid	8015B NM	72517
880-38939-22	SW-6 (2')	Total/NA	Solid	8015B NM	72517
880-38939-23	SW-7 (2')	Total/NA	Solid	8015B NM	72517
880-38939-24	SW-8 (2')	Total/NA	Solid	8015B NM	72517
880-38939-25	SW-9 (2')	Total/NA	Solid	8015B NM	72517
880-38939-26	SW-10 (3.5')	Total/NA	Solid	8015B NM	72517
880-38939-27	SW-11 (1.5')	Total/NA	Solid	8015B NM	72517
880-38939-28	SW-12 (3.5')	Total/NA	Solid	8015B NM	72517
880-38939-29	SW-13 (3.5')	Total/NA	Solid	8015B NM	72517
880-38939-30	SW-14 (2')	Total/NA	Solid	8015B NM	72517
880-38939-31	SW-15 (4.5')	Total/NA	Solid	8015B NM	72517
880-38939-32	SW-16 (4.5')	Total/NA	Solid	8015B NM	72517
880-38939-33	SW-17 (1.0')	Total/NA	Solid	8015B NM	72517
880-38939-34	SW-18 (4.5')	Total/NA	Solid	8015B NM	72517
880-38939-35	SW-19 (4.5')	Total/NA	Solid	8015B NM	72517
880-38939-36	SW-20 (4.5')	Total/NA	Solid	8015B NM	72517
880-38939-37	SW-21 (4.5')	Total/NA	Solid	8015B NM	72517
880-38939-38	SW-22 (4.5')	Total/NA	Solid	8015B NM	72517
880-38939-39	SW-23 (4.5')	Total/NA	Solid	8015B NM	72517
880-38939-40	SW-24 (4.5')	Total/NA	Solid	8015B NM	72517
MB 880-72508/1-A	Method Blank	Total/NA	Solid	8015B NM	72508
MB 880-72517/1-A	Method Blank	Total/NA	Solid	8015B NM	72517
LCS 880-72508/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72508
LCS 880-72517/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72517
LCSD 880-72508/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72508
LCSD 880-72517/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72517
880-38939-1 MS	CS-1 (2')	Total/NA	Solid	8015B NM	72508
880-38939-1 MSD	CS-1 (2')	Total/NA	Solid	8015B NM	72508
880-38939-21 MS	SW-5 (2')	Total/NA	Solid	8015B NM	72517
880-38939-21 MSD	SW-5 (2')	Total/NA	Solid	8015B NM	72517

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

GC Semi VOA

Analysis Batch: 72972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1	CS-1 (2')	Total/NA	Solid	8015 NM	
880-38939-2	CS-2 (2')	Total/NA	Solid	8015 NM	
880-38939-3	CS-3 (2')	Total/NA	Solid	8015 NM	
880-38939-4	CS-4 (2')	Total/NA	Solid	8015 NM	
880-38939-5	CS-5 (2')	Total/NA	Solid	8015 NM	
880-38939-6	CS-6 (3.5')	Total/NA	Solid	8015 NM	
880-38939-7	CS-7 (4.5')	Total/NA	Solid	8015 NM	
880-38939-8	CS-8 (4.5')	Total/NA	Solid	8015 NM	
880-38939-9	CS-9 (4.5')	Total/NA	Solid	8015 NM	
880-38939-10	CS-10 (4.5')	Total/NA	Solid	8015 NM	
880-38939-11	CS-11 (4.5')	Total/NA	Solid	8015 NM	
880-38939-12	CS-12 (4.5')	Total/NA	Solid	8015 NM	
880-38939-13	CS-13 (4.5')	Total/NA	Solid	8015 NM	
880-38939-14	CS-14 (4.5')	Total/NA	Solid	8015 NM	
880-38939-15	CS-15 (1.5')	Total/NA	Solid	8015 NM	
880-38939-16	CS-16 (1.5')	Total/NA	Solid	8015 NM	
880-38939-17	SW-1 (2')	Total/NA	Solid	8015 NM	
880-38939-18	SW-2 (2')	Total/NA	Solid	8015 NM	
880-38939-19	SW-3 (2')	Total/NA	Solid	8015 NM	
880-38939-20	SW-4 (2')	Total/NA	Solid	8015 NM	
880-38939-21	SW-5 (2')	Total/NA	Solid	8015 NM	
880-38939-22	SW-6 (2')	Total/NA	Solid	8015 NM	
880-38939-23	SW-7 (2')	Total/NA	Solid	8015 NM	
880-38939-24	SW-8 (2')	Total/NA	Solid	8015 NM	
880-38939-25	SW-9 (2')	Total/NA	Solid	8015 NM	
880-38939-26	SW-10 (3.5')	Total/NA	Solid	8015 NM	
880-38939-27	SW-11 (1.5')	Total/NA	Solid	8015 NM	
880-38939-28	SW-12 (3.5')	Total/NA	Solid	8015 NM	
880-38939-29	SW-13 (3.5')	Total/NA	Solid	8015 NM	
880-38939-30	SW-14 (2')	Total/NA	Solid	8015 NM	
880-38939-31	SW-15 (4.5')	Total/NA	Solid	8015 NM	
880-38939-32	SW-16 (4.5')	Total/NA	Solid	8015 NM	
880-38939-33	SW-17 (1.0')	Total/NA	Solid	8015 NM	
880-38939-34	SW-18 (4.5')	Total/NA	Solid	8015 NM	
880-38939-35	SW-19 (4.5')	Total/NA	Solid	8015 NM	
880-38939-36	SW-20 (4.5')	Total/NA	Solid	8015 NM	
880-38939-37	SW-21 (4.5')	Total/NA	Solid	8015 NM	
880-38939-38	SW-22 (4.5')	Total/NA	Solid	8015 NM	
880-38939-39	SW-23 (4.5')	Total/NA	Solid	8015 NM	
880-38939-40	SW-24 (4.5')	Total/NA	Solid	8015 NM	
880-38939-41	SW-25 (4.5')	Total/NA	Solid	8015 NM	
880-38939-42	SW-26 (4.5')	Total/NA	Solid	8015 NM	
880-38939-43	SW-27 (4.5')	Total/NA	Solid	8015 NM	
880-38939-44	SW-28 (4.5')	Total/NA	Solid	8015 NM	
880-38939-45	SW-29 (4.5')	Total/NA	Solid	8015 NM	
880-38939-46	SW-30 (1.5')	Total/NA	Solid	8015 NM	
880-38939-47	SW-31 (1.5')	Total/NA	Solid	8015 NM	
880-38939-48	SW-32 (1.5')	Total/NA	Solid	8015 NM	
880-38939-49	SW-33 (1.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

HPLC/IC

Leach Batch: 72454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1	CS-1 (2')	Soluble	Solid	DI Leach	
880-38939-2	CS-2 (2')	Soluble	Solid	DI Leach	
880-38939-3	CS-3 (2')	Soluble	Solid	DI Leach	
880-38939-4	CS-4 (2')	Soluble	Solid	DI Leach	
880-38939-5	CS-5 (2')	Soluble	Solid	DI Leach	
880-38939-6	CS-6 (3.5')	Soluble	Solid	DI Leach	
880-38939-7	CS-7 (4.5')	Soluble	Solid	DI Leach	
880-38939-8	CS-8 (4.5')	Soluble	Solid	DI Leach	
880-38939-9	CS-9 (4.5')	Soluble	Solid	DI Leach	
880-38939-10	CS-10 (4.5')	Soluble	Solid	DI Leach	
880-38939-11	CS-11 (4.5')	Soluble	Solid	DI Leach	
MB 880-72454/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72454/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72454/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38939-10 MS	CS-10 (4.5')	Soluble	Solid	DI Leach	
880-38939-10 MSD	CS-10 (4.5')	Soluble	Solid	DI Leach	

Leach Batch: 72455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-12	CS-12 (4.5')	Soluble	Solid	DI Leach	
880-38939-13	CS-13 (4.5')	Soluble	Solid	DI Leach	
880-38939-14	CS-14 (4.5')	Soluble	Solid	DI Leach	
880-38939-15	CS-15 (1.5')	Soluble	Solid	DI Leach	
880-38939-16	CS-16 (1.5')	Soluble	Solid	DI Leach	
880-38939-17	SW-1 (2')	Soluble	Solid	DI Leach	
880-38939-18	SW-2 (2')	Soluble	Solid	DI Leach	
880-38939-19	SW-3 (2')	Soluble	Solid	DI Leach	
880-38939-20	SW-4 (2')	Soluble	Solid	DI Leach	
880-38939-21	SW-5 (2')	Soluble	Solid	DI Leach	
880-38939-22	SW-6 (2')	Soluble	Solid	DI Leach	
880-38939-23	SW-7 (2')	Soluble	Solid	DI Leach	
880-38939-24	SW-8 (2')	Soluble	Solid	DI Leach	
880-38939-25	SW-9 (2')	Soluble	Solid	DI Leach	
880-38939-26	SW-10 (3.5')	Soluble	Solid	DI Leach	
880-38939-27	SW-11 (1.5')	Soluble	Solid	DI Leach	
880-38939-28	SW-12 (3.5')	Soluble	Solid	DI Leach	
880-38939-29	SW-13 (3.5')	Soluble	Solid	DI Leach	
880-38939-30	SW-14 (2')	Soluble	Solid	DI Leach	
880-38939-31	SW-15 (4.5')	Soluble	Solid	DI Leach	
MB 880-72455/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72455/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72455/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38939-12 MS	CS-12 (4.5')	Soluble	Solid	DI Leach	
880-38939-12 MSD	CS-12 (4.5')	Soluble	Solid	DI Leach	
880-38939-22 MS	SW-6 (2')	Soluble	Solid	DI Leach	
880-38939-22 MSD	SW-6 (2')	Soluble	Solid	DI Leach	

Leach Batch: 72456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-32	SW-16 (4.5')	Soluble	Solid	DI Leach	
880-38939-33	SW-17 (1.0')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

HPLC/IC (Continued)

Leach Batch: 72456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-34	SW-18 (4.5')	Soluble	Solid	DI Leach	
880-38939-35	SW-19 (4.5')	Soluble	Solid	DI Leach	
880-38939-36	SW-20 (4.5')	Soluble	Solid	DI Leach	
880-38939-37	SW-21 (4.5')	Soluble	Solid	DI Leach	
880-38939-38	SW-22 (4.5')	Soluble	Solid	DI Leach	
880-38939-39	SW-23 (4.5')	Soluble	Solid	DI Leach	
880-38939-40	SW-24 (4.5')	Soluble	Solid	DI Leach	
880-38939-41	SW-25 (4.5')	Soluble	Solid	DI Leach	
880-38939-42	SW-26 (4.5')	Soluble	Solid	DI Leach	
880-38939-43	SW-27 (4.5')	Soluble	Solid	DI Leach	
880-38939-44	SW-28 (4.5')	Soluble	Solid	DI Leach	
880-38939-45	SW-29 (4.5')	Soluble	Solid	DI Leach	
880-38939-46	SW-30 (1.5')	Soluble	Solid	DI Leach	
880-38939-47	SW-31 (1.5')	Soluble	Solid	DI Leach	
880-38939-48	SW-32 (1.5')	Soluble	Solid	DI Leach	
880-38939-49	SW-33 (1.5')	Soluble	Solid	DI Leach	
MB 880-72456/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72456/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72456/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38939-32 MS	SW-16 (4.5')	Soluble	Solid	DI Leach	
880-38939-32 MSD	SW-16 (4.5')	Soluble	Solid	DI Leach	
880-38939-42 MS	SW-26 (4.5')	Soluble	Solid	DI Leach	
880-38939-42 MSD	SW-26 (4.5')	Soluble	Solid	DI Leach	

Analysis Batch: 72559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-1	CS-1 (2')	Soluble	Solid	300.0	72454
880-38939-2	CS-2 (2')	Soluble	Solid	300.0	72454
880-38939-3	CS-3 (2')	Soluble	Solid	300.0	72454
880-38939-4	CS-4 (2')	Soluble	Solid	300.0	72454
880-38939-5	CS-5 (2')	Soluble	Solid	300.0	72454
880-38939-6	CS-6 (3.5')	Soluble	Solid	300.0	72454
880-38939-7	CS-7 (4.5')	Soluble	Solid	300.0	72454
880-38939-8	CS-8 (4.5')	Soluble	Solid	300.0	72454
880-38939-9	CS-9 (4.5')	Soluble	Solid	300.0	72454
880-38939-10	CS-10 (4.5')	Soluble	Solid	300.0	72454
880-38939-11	CS-11 (4.5')	Soluble	Solid	300.0	72454
MB 880-72454/1-A	Method Blank	Soluble	Solid	300.0	72454
LCS 880-72454/2-A	Lab Control Sample	Soluble	Solid	300.0	72454
LCSD 880-72454/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72454
880-38939-10 MS	CS-10 (4.5')	Soluble	Solid	300.0	72454
880-38939-10 MSD	CS-10 (4.5')	Soluble	Solid	300.0	72454

Analysis Batch: 72561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-12	CS-12 (4.5')	Soluble	Solid	300.0	72455
880-38939-13	CS-13 (4.5')	Soluble	Solid	300.0	72455
880-38939-14	CS-14 (4.5')	Soluble	Solid	300.0	72455
880-38939-15	CS-15 (1.5')	Soluble	Solid	300.0	72455
880-38939-16	CS-16 (1.5')	Soluble	Solid	300.0	72455
880-38939-17	SW-1 (2')	Soluble	Solid	300.0	72455

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

HPLC/IC (Continued)

Analysis Batch: 72561 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-18	SW-2 (2')	Soluble	Solid	300.0	72455
880-38939-19	SW-3 (2')	Soluble	Solid	300.0	72455
880-38939-20	SW-4 (2')	Soluble	Solid	300.0	72455
880-38939-21	SW-5 (2')	Soluble	Solid	300.0	72455
880-38939-22	SW-6 (2')	Soluble	Solid	300.0	72455
880-38939-23	SW-7 (2')	Soluble	Solid	300.0	72455
880-38939-24	SW-8 (2')	Soluble	Solid	300.0	72455
880-38939-25	SW-9 (2')	Soluble	Solid	300.0	72455
880-38939-26	SW-10 (3.5')	Soluble	Solid	300.0	72455
880-38939-27	SW-11 (1.5')	Soluble	Solid	300.0	72455
880-38939-28	SW-12 (3.5')	Soluble	Solid	300.0	72455
880-38939-29	SW-13 (3.5')	Soluble	Solid	300.0	72455
880-38939-30	SW-14 (2')	Soluble	Solid	300.0	72455
880-38939-31	SW-15 (4.5')	Soluble	Solid	300.0	72455
MB 880-72455/1-A	Method Blank	Soluble	Solid	300.0	72455
LCS 880-72455/2-A	Lab Control Sample	Soluble	Solid	300.0	72455
LCSD 880-72455/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72455
880-38939-12 MS	CS-12 (4.5')	Soluble	Solid	300.0	72455
880-38939-12 MSD	CS-12 (4.5')	Soluble	Solid	300.0	72455
880-38939-22 MS	SW-6 (2')	Soluble	Solid	300.0	72455
880-38939-22 MSD	SW-6 (2')	Soluble	Solid	300.0	72455

Analysis Batch: 72562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38939-32	SW-16 (4.5')	Soluble	Solid	300.0	72456
880-38939-33	SW-17 (1.0')	Soluble	Solid	300.0	72456
880-38939-34	SW-18 (4.5')	Soluble	Solid	300.0	72456
880-38939-35	SW-19 (4.5')	Soluble	Solid	300.0	72456
880-38939-36	SW-20 (4.5')	Soluble	Solid	300.0	72456
880-38939-37	SW-21 (4.5')	Soluble	Solid	300.0	72456
880-38939-38	SW-22 (4.5')	Soluble	Solid	300.0	72456
880-38939-39	SW-23 (4.5')	Soluble	Solid	300.0	72456
880-38939-40	SW-24 (4.5')	Soluble	Solid	300.0	72456
880-38939-41	SW-25 (4.5')	Soluble	Solid	300.0	72456
880-38939-42	SW-26 (4.5')	Soluble	Solid	300.0	72456
880-38939-43	SW-27 (4.5')	Soluble	Solid	300.0	72456
880-38939-44	SW-28 (4.5')	Soluble	Solid	300.0	72456
880-38939-45	SW-29 (4.5')	Soluble	Solid	300.0	72456
880-38939-46	SW-30 (1.5')	Soluble	Solid	300.0	72456
880-38939-47	SW-31 (1.5')	Soluble	Solid	300.0	72456
880-38939-48	SW-32 (1.5')	Soluble	Solid	300.0	72456
880-38939-49	SW-33 (1.5')	Soluble	Solid	300.0	72456
MB 880-72456/1-A	Method Blank	Soluble	Solid	300.0	72456
LCS 880-72456/2-A	Lab Control Sample	Soluble	Solid	300.0	72456
LCSD 880-72456/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72456
880-38939-32 MS	SW-16 (4.5')	Soluble	Solid	300.0	72456
880-38939-32 MSD	SW-16 (4.5')	Soluble	Solid	300.0	72456
880-38939-42 MS	SW-26 (4.5')	Soluble	Solid	300.0	72456
880-38939-42 MSD	SW-26 (4.5')	Soluble	Solid	300.0	72456

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-1 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-1
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			4.99 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 01:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 01:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 10:02	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		1			72559	02/07/24 22:34	CH	EET MID

Client Sample ID: CS-2 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-2
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			5.02 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 02:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 02:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 11:09	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		1			72559	02/07/24 22:39	CH	EET MID

Client Sample ID: CS-3 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-3
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			5.03 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 02:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 02:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 11:31	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		1			72559	02/07/24 22:43	CH	EET MID

Client Sample ID: CS-4 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-4
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			5.01 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 03:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 03:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-4 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-4
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			72972	02/12/24 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 11:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		1			72559	02/07/24 22:48	CH	EET MID

Client Sample ID: CS-5 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-5
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			4.98 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 03:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 03:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 12:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		1			72559	02/07/24 23:02	CH	EET MID

Client Sample ID: CS-6 (3.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-6
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			5.02 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 04:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 04:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 12:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 12:37	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		10			72559	02/07/24 23:06	CH	EET MID

Client Sample ID: CS-7 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-7
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			5.03 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 04:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 04:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 13:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 13:00	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-7 (4.5')

Lab Sample ID: 880-38939-7

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		10			72559	02/07/24 23:11	CH	EET MID

Client Sample ID: CS-8 (4.5')

Lab Sample ID: 880-38939-8

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 04:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 04:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 13:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 13:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		1			72559	02/07/24 23:16	CH	EET MID

Client Sample ID: CS-9 (4.5')

Lab Sample ID: 880-38939-9

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 05:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 05:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 13:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 13:45	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		1			72559	02/07/24 23:20	CH	EET MID

Client Sample ID: CS-10 (4.5')

Lab Sample ID: 880-38939-10

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 05:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 05:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 14:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 14:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		10			72559	02/07/24 23:25	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-11 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-11
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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 07:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 07:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 14:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 14:52	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	72454	02/06/24 10:07	SMC	EET MID
Soluble	Analysis	300.0		10			72559	02/07/24 23:39	CH	EET MID

Client Sample ID: CS-12 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-12
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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 08:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 08:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 15:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 15:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 19:38	CH	EET MID

Client Sample ID: CS-13 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 08:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 08:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 15:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 15:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 19:52	CH	EET MID

Client Sample ID: CS-14 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-14
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			4.97 g	5 mL	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 08:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: CS-14 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			72972	02/12/24 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 15:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 19:56	CH	EET MID

Client Sample ID: CS-15 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-15
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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 09:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 16:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 20:01	CH	EET MID

Client Sample ID: CS-16 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-16
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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 09:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 16:42	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 20:06	CH	EET MID

Client Sample ID: SW-1 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-17
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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 10:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 17:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-1 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		5			72561	02/07/24 20:20	CH	EET MID

Client Sample ID: SW-2 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-18
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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 10:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 17:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 17:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		1			72561	02/07/24 20:24	CH	EET MID

Client Sample ID: SW-3 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-19
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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 11:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 17:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 17:49	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		1			72561	02/07/24 20:29	CH	EET MID

Client Sample ID: SW-4 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-20
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	72822	02/11/24 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/13/24 11:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 18:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	72508	02/06/24 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 18:11	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		5			72561	02/07/24 20:34	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-5 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-21
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 00:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 00:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 20:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 20:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		1			72561	02/07/24 20:38	CH	EET MID

Client Sample ID: SW-6 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-22
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 00:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 00:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 21:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 21:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		1			72561	02/07/24 20:43	CH	EET MID

Client Sample ID: SW-7 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-23
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 00:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 00:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 21:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 21:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		1			72561	02/07/24 20:57	CH	EET MID

Client Sample ID: SW-8 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-24
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 01:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 01:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-8 (2')

Lab Sample ID: 880-38939-24

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			72972	02/12/24 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 21:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		1			72561	02/07/24 21:01	CH	EET MID

Client Sample ID: SW-9 (2')

Lab Sample ID: 880-38939-25

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 01:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 01:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 22:20	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 21:15	CH	EET MID

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-38939-26

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 01:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 01:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 22:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 22:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 21:20	CH	EET MID

Client Sample ID: SW-11 (1.5')

Lab Sample ID: 880-38939-27

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 02:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 02:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 23:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 23:03	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-11 (1.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		5			72561	02/07/24 21:24	CH	EET MID

Client Sample ID: SW-12 (3.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-28
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 02:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 02:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 23:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 23:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 21:29	CH	EET MID

Client Sample ID: SW-13 (3.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-29
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 02:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 02:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/12/24 23:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/12/24 23:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 21:34	CH	EET MID

Client Sample ID: SW-14 (2')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-30
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 03:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 00:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 00:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		1			72561	02/07/24 21:38	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-15 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-31
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 04:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 04:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 00:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 00:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	72455	02/06/24 10:11	SMC	EET MID
Soluble	Analysis	300.0		10			72561	02/07/24 21:43	CH	EET MID

Client Sample ID: SW-16 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-32
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 04:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 04:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 01:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 01:15	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 03:44	CH	EET MID

Client Sample ID: SW-17 (1.0')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-33
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 05:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 05:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 01:37	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		1			72562	02/08/24 04:04	CH	EET MID

Client Sample ID: SW-18 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-34
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 05:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 05:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-18 (4.5')

Lab Sample ID: 880-38939-34

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			72972	02/13/24 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 01:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		1			72562	02/08/24 04:11	CH	EET MID

Client Sample ID: SW-19 (4.5')

Lab Sample ID: 880-38939-35

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 05:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 05:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 02:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 02:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		1			72562	02/08/24 04:18	CH	EET MID

Client Sample ID: SW-20 (4.5')

Lab Sample ID: 880-38939-36

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 06:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 06:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 02:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 02:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		1			72562	02/08/24 04:25	CH	EET MID

Client Sample ID: SW-21 (4.5')

Lab Sample ID: 880-38939-37

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 06:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 06:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 03:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 03:06	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-21 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-37
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			4.99 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 04:45	CH	EET MID

Client Sample ID: SW-22 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-38
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 06:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 06:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 03:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 03:28	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 04:52	CH	EET MID

Client Sample ID: SW-23 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-39
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 07:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 07:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 03:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 03:50	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 04:59	CH	EET MID

Client Sample ID: SW-24 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-40
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	72823	02/11/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72834	02/13/24 07:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 07:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/13/24 04:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	72517	02/06/24 14:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72825	02/13/24 04:12	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 10:02	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-25 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-41
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			4.98 g	5 mL	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 02:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 02:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/11/24 10:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 10:21	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 05:07	CH	EET MID

Client Sample ID: SW-26 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-42
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	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 03:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/11/24 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 11:27	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 05:14	CH	EET MID

Client Sample ID: SW-27 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-43
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	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 03:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/11/24 11:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 11:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 05:35	CH	EET MID

Client Sample ID: SW-28 (4.5')
Date Collected: 01/31/24 00:00
Date Received: 02/05/24 15:09

Lab Sample ID: 880-38939-44
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	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 03:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 03:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-28 (4.5')

Lab Sample ID: 880-38939-44

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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			72972	02/11/24 12:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 12:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 05:41	CH	EET MID

Client Sample ID: SW-29 (4.5')

Lab Sample ID: 880-38939-45

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 04:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 04:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/11/24 12:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 12:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 06:02	CH	EET MID

Client Sample ID: SW-30 (1.5')

Lab Sample ID: 880-38939-46

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 04:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 04:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/11/24 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 12:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 06:09	CH	EET MID

Client Sample ID: SW-31 (1.5')

Lab Sample ID: 880-38939-47

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 06:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 06:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/11/24 13:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 13:18	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Client Sample ID: SW-31 (1.5')

Lab Sample ID: 880-38939-47

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 06:15	CH	EET MID

Client Sample ID: SW-32 (1.5')

Lab Sample ID: 880-38939-48

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 06:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 06:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/11/24 13:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 13:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 06:22	CH	EET MID

Client Sample ID: SW-33 (1.5')

Lab Sample ID: 880-38939-49

Date Collected: 01/31/24 00:00

Matrix: Solid

Date Received: 02/05/24 15:09

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	72821	02/11/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72835	02/13/24 07:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72989	02/13/24 07:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			72972	02/11/24 14:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	72518	02/06/24 14:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72814	02/11/24 14:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	72456	02/06/24 10:14	SMC	EET MID
Soluble	Analysis	300.0		10			72562	02/08/24 06:29	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: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
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

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

Method Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
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: Southern Comfort 5 6 10 12

Job ID: 880-38939-1
SDG: Eddy County, new Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38939-1	CS-1 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-2	CS-2 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-3	CS-3 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-4	CS-4 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-5	CS-5 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-6	CS-6 (3.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-7	CS-7 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-8	CS-8 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-9	CS-9 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-10	CS-10 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-11	CS-11 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-12	CS-12 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-13	CS-13 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-14	CS-14 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-15	CS-15 (1.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-16	CS-16 (1.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-17	SW-1 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-18	SW-2 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-19	SW-3 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-20	SW-4 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-21	SW-5 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-22	SW-6 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-23	SW-7 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-24	SW-8 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-25	SW-9 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-26	SW-10 (3.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-27	SW-11 (1.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-28	SW-12 (3.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-29	SW-13 (3.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-30	SW-14 (2')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-31	SW-15 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-32	SW-16 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-33	SW-17 (1.0')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-34	SW-18 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-35	SW-19 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-36	SW-20 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-37	SW-21 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-38	SW-22 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-39	SW-23 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-40	SW-24 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-41	SW-25 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-42	SW-26 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-43	SW-27 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-44	SW-28 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-45	SW-29 (4.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-46	SW-30 (1.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-47	SW-31 (1.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-48	SW-32 (1.5')	Solid	01/31/24 00:00	02/05/24 15:09
880-38939-49	SW-33 (1.5')	Solid	01/31/24 00:00	02/05/24 15:09



880-38939 Chain of Custody

5

Project Manager: Clinton Merritt		Bill to (if different)		Isaac Castro
Company Name: Carmona Resources		Company Name		Marathon Oil Corporation
Address: 310 W Wall St Ste 500		Address		990 Town and Country Blvd
City, State ZIP: Midland, TX 79701		City, State ZIP		Houston, TX 77024
Phone		Email		icasastro@marathonoil.com

Project Name: Southern Comfort 5 6 10 12		Turn Around		Pres. Code
Project Number: 2173	☒ Routine	☐ Rush	5 day	
Project Location: Eddy County, New Mexico	Due Date			
Sampler's Name: CCM	TA 23 03143			

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
CS-1 (2')	1/31/2024		X		Comp	1		X	X		None NO
CS-2 (2')	1/31/2024		X		Comp	1		X	X		DI Water H ₂ O
CS-3 (2')	1/31/2024		X		Comp	1		X	X		Cool Cool
CS-4 (2')	1/31/2024		X		Comp	1		X	X		HCL HC
CS-5 (2')	1/31/2024		X		Comp	1		X	X		H ₂ SO ₄ H ₂
CS-6 (3 5')	1/31/2024		X		Comp	1		X	X		H ₃ PO ₄ HP
CS-7 (4 5')	1/31/2024		X		Comp	1		X	X		NaHSO ₄ NABIS
CS-8 (4 5')	1/31/2024		X		Comp	1		X	X		Na ₂ S ₂ O ₃ NaSO ₃
CS-9 (4 5')	1/31/2024		X		Comp	1		X	X		Zn Acetate+NaOH Zn
CS-10 (4 5')	1/31/2024		X		Comp	1		X	X		NaOH+Ascorbic Acid SAPC

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt merrittc@carmonaresources.com

Relinquished by (Signature)

Received by (Signature)

Date/Time

Date/Time

2/14/2024

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Work Order No: 38939

Page 2 of 5

Project Manager: Clinton Merritt		Bill to (if different)		Isaac Castro	
Company Name: Carmona Resources		Company Name:		Marathon Oil Corporation	
Address: 310 W Wall St Ste 500		Address:		990 Town and Country Blvd	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Houston, TX 77024	
Phone:		Email: icasastro@marathonoil.com			

Project Name: Southern Comfort 5 6 10 12		Turn Around		Pres. Code	
Project Number: 2173		☒ Routine ☐ Rush			
Project Location: Eddy County, New Mexico		Due Date: 5 day			
Sampler's Name: CCM					
PO #: TA.23 03143					

ANALYSIS REQUEST										Preservative Codes			
SAMPLE RECEIPT		Temp Blank		Yes		No		Wet Ice		Yes		No	
Received Intact:		Yes		No		Thermometer ID		Correction Factor		Temperature Reading		Corrected Temperature	
Cooler Custody Seals:		Yes		No		N/A		N/A		N/A		N/A	
Sample Custody Seals:		Yes		No		N/A		N/A		N/A		N/A	
Total Containers:		Yes		No		N/A		N/A		N/A		N/A	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont							
CS-11 (4 5')	1/31/2024		X		Comp 1	1							
CS-12 (4 5')	1/31/2024		X		Comp 1	1							
CS-13 (4 5')	1/31/2024		X		Comp 1	1							
CS-14 (4 5')	1/31/2024		X		Comp 1	1							
CS-15 (1 5')	1/31/2024		X		Comp 1	1							
CS-16 (1 5')	1/31/2024		X		Comp 1	1							
SW-1 (2')	1/31/2024		X		Comp 1	1							
SW-2 (2')	1/31/2024		X		Comp 1	1							
SW-3 (2')	1/31/2024		X		Comp 1	1							
SW-4 (2')	1/31/2024		X		Comp 1	1							

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com	
Relinquished by (Signature)	Date/Time
Received by (Signature)	Date/Time

Work Order No: 38939

Page 3 of 5

Project Manager		Clinton Merritt		Isaac Castro	
Company Name		Carmona Resources		Marathon Oil Corporation	
Address		310 W Wall St Ste 500		990 Town and Country Blvd	
City, State ZIP		Midland, TX 79701		Houston, TX 77024	
Phone				Email: icasastro@marathonoil.com	

Project Name		Southern Comfort 5 6 10 12		Bill to (if different)		Isaac Castro	
Project Number		2173		Company Name		Marathon Oil Corporation	
Project Location		Eddy County, New Mexico		Address		990 Town and Country Blvd	
Sampler's Name:		CCM		City, State ZIP		Houston, TX 77024	
PO #:		TA 23 03143		Email		icasastro@marathonoil.com	

ANALYSIS REQUEST																																																																																																																																																																			
Project Name	Project Number	Project Location	Sampler's Name:	PO #:	Turn Around				Pres. Code																																																																																																																																																										
					Temp Blank	Yes	No	Wet Ice.		Yes	No																																																																																																																																																								
Received Intact:					Yes	No																																																																																																																																																													
Cooler Custody Seals					Yes	No	N/A																																																																																																																																																												
Sample Custody Seals					Yes	No	N/A																																																																																																																																																												
Total Containers																																																																																																																																																																			
<table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Date</th> <th>Time</th> <th>Soil</th> <th>Water</th> <th>Grab/Comp</th> <th># of Cont</th> <th>Parameters</th> <th>TPH 8015M (GRO + DRO + MRO)</th> <th>BTEX 8021B</th> <th>Chloride 300.0</th> <th>Hold</th> <th>Preservative Codes</th> <th>Sample Comments</th> </tr> </thead> <tbody> <tr> <td>SW-5 (2')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>None NO</td> <td>DI Water H₂O</td> </tr> <tr> <td>SW-6 (2')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>Cool Cool</td> <td>MeOH Me</td> </tr> <tr> <td>SW-7 (2')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>HCL HC</td> <td>HNO₃ HN</td> </tr> <tr> <td>SW-8 (2')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>H₂SO₄ H₂</td> <td>NaOH Na</td> </tr> <tr> <td>SW-9 (2')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>H₃PO₄ HP</td> <td></td> </tr> <tr> <td>SW-10 (3 5')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>NaHSO₄ NABIS</td> <td></td> </tr> <tr> <td>SW-11 (1 5')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>Na₂S₂O₃ NaSO₃</td> <td></td> </tr> <tr> <td>SW-12 (3 5')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>Zn Acetate+NaOH Zn</td> <td></td> </tr> <tr> <td>SW-13 (3 5')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>NaOH+Ascorbic Acid SAPC</td> <td></td> </tr> <tr> <td>SW-14 (2')</td> <td>1/31/2024</td> <td></td> <td>X</td> <td></td> <td>Comp</td> <td>1</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	TPH 8015M (GRO + DRO + MRO)	BTEX 8021B	Chloride 300.0	Hold	Preservative Codes	Sample Comments	SW-5 (2')	1/31/2024		X		Comp	1		X	X	X		None NO	DI Water H ₂ O	SW-6 (2')	1/31/2024		X		Comp	1		X	X	X		Cool Cool	MeOH Me	SW-7 (2')	1/31/2024		X		Comp	1		X	X	X		HCL HC	HNO ₃ HN	SW-8 (2')	1/31/2024		X		Comp	1		X	X	X		H ₂ SO ₄ H ₂	NaOH Na	SW-9 (2')	1/31/2024		X		Comp	1		X	X	X		H ₃ PO ₄ HP		SW-10 (3 5')	1/31/2024		X		Comp	1		X	X	X		NaHSO ₄ NABIS		SW-11 (1 5')	1/31/2024		X		Comp	1		X	X	X		Na ₂ S ₂ O ₃ NaSO ₃		SW-12 (3 5')	1/31/2024		X		Comp	1		X	X	X		Zn Acetate+NaOH Zn		SW-13 (3 5')	1/31/2024		X		Comp	1		X	X	X		NaOH+Ascorbic Acid SAPC		SW-14 (2')	1/31/2024		X		Comp	1		X	X	X			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	TPH 8015M (GRO + DRO + MRO)	BTEX 8021B	Chloride 300.0	Hold	Preservative Codes	Sample Comments																																																																																																																																																						
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SW-8 (2')	1/31/2024		X		Comp	1		X	X	X		H ₂ SO ₄ H ₂	NaOH Na																																																																																																																																																						
SW-9 (2')	1/31/2024		X		Comp	1		X	X	X		H ₃ PO ₄ HP																																																																																																																																																							
SW-10 (3 5')	1/31/2024		X		Comp	1		X	X	X		NaHSO ₄ NABIS																																																																																																																																																							
SW-11 (1 5')	1/31/2024		X		Comp	1		X	X	X		Na ₂ S ₂ O ₃ NaSO ₃																																																																																																																																																							
SW-12 (3 5')	1/31/2024		X		Comp	1		X	X	X		Zn Acetate+NaOH Zn																																																																																																																																																							
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SW-14 (2')	1/31/2024		X		Comp	1		X	X	X																																																																																																																																																									

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
		2-5-24					
		1509					

Work Order No: 309391

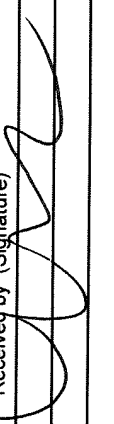
Page 4 of 5

Project Manager	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston, TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other ☐	

ANALYSIS REQUEST										
Project Name	Project Number	Project Location	Sampler's Name	PO #	Turn Around				Pres. Code	
					☒ Routine	☐ Rush	Due Date	5 day		
Southern Comfort 5 6 10 12	2173	Eddy County, New Mexico	CCM	TA.23 03143	Temp Blank	Yes	No	Wet Ice	Yes	No
SAMPLE RECEIPT					Received Intact:	Yes	No	Thermometer ID		
					Cooler Custody Seals	Yes	No	Correction Factor		
					Sample Custody Seals	Yes	No	Temperature Reading		
					Total Containers			Corrected Temperature		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			
SW-15 (4 5')	1/31/2024		X		Comp	1	BTEX 8021B			
SW-16 (4 5')	1/31/2024		X		Comp	1	TPH 8015M (GRO + DRO + MRO)			
SW-17 (1 0')	1/31/2024		X		Comp	1	Chloride 300.0			
SW-18 (4 5')	1/31/2024		X		Comp	1	Hold			
SW-19 (4 5')	1/31/2024		X		Comp	1				
SW-20 (4 5')	1/31/2024		X		Comp	1				
SW-21 (4 5')	1/31/2024		X		Comp	1				
SW-22 (4 5')	1/31/2024		X		Comp	1				
SW-23 (4 5')	1/31/2024		X		Comp	1				
SW-24 (4 5')	1/31/2024		X		Comp	1				
							Preservative Codes			
							None: NO			
							Cool Cool			
							HCL HC			
							H ₂ SO ₄ H ₂			
							H ₃ PO ₄ HP			
							NaHSO ₄ NABIS			
							Na ₂ S ₂ O ₃ NaSO ₃			
							Zn Acetate+NaOH Zn			
							NaOH+Ascorbic Acid SAPC			
							Sample Comments			

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt merrittc@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	2-5-24		
	1500		

Loc: 880

Work Order No: _____

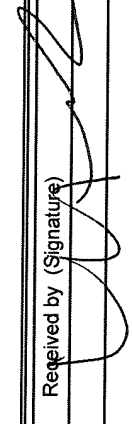
38939

Project Manager: Clinton Merritt		Bill to: (if different)		Isaac Castro	
Company Name: Carmona Resources		Company Name:		Marathon Oil Corporation	
Address: 310 W Wall St Ste 500		Address:		990 Town and Country Blvd	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Houston, TX 77024	
Phone:		Email: icaastro@marathonoil.com			

Project Name: Southern Comfort 5 6 10 12		Turn Around		Pres. Code	
Project Number: 2173		☒ Routine ☐ Rush			
Project Location: Eddy County, New Mexico		Due Date: 5 day			
Sampler's Name: CCM					
PO #: TA 23 03143					

ANALYSIS REQUEST										Preservative Codes	
SAMPLE RECEIPT										Sample Comments	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Hold	
SW-25 (4 5')	1/31/2024		X		Comp 1	1	BTEX 8021B			None: NO	
SW-26 (4 5')	1/31/2024		X		Comp 1	1	TPH 8015M (GRO + DRO + MRO)			Cool Cool	
SW-27 (4 5')	1/31/2024		X		Comp 1	1	Chloride 300.0			HCL HC	
SW-28 (4 5')	1/31/2024		X		Comp 1	1				H ₂ SO ₄ H ₂	
SW-29 (4 5')	1/31/2024		X		Comp 1	1				H ₃ PO ₄ HP	
SW-30 (1 5')	1/31/2024		X		Comp 1	1				NaHSO ₄ NABIS	
SW-31 (1 5')	1/31/2024		X		Comp 1	1				Na ₂ S ₂ O ₃ NaSO ₃	
SW-32 (1 5')	1/31/2024		X		Comp 1	1				Zn Acetate+NaOH Zn	
SW-33 (1 5')	1/31/2024		X		Comp 1	1				NaOH+Ascorbic Acid SAPC	

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt merrittc@carmonaresources.com

Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
		2-5-24					
		1509					

2/14/2024

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38939-1
SDG Number: Eddy County, new Mexico

Login Number: 38939
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 3/4/2024 4:41:56 PM Revision 1

JOB DESCRIPTION

Southern Comfort 5 6 10 12
Eddy County ,New Mexico

JOB NUMBER

880-39775-1

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



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

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Revision 1

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Laboratory Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Southern Comfort 5 6 10 12

Job ID: 880-39775-1

Job ID: 880-39775-1**Eurofins Midland****Job Narrative
880-39775-1**REVISION

The report being provided is a revision of the original report sent on 2/29/2024. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

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 2/22/2024 9:27 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 1.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-7 (4.75') (880-39775-1), CS-15 (1.75') (880-39775-2), CS-16 (1.75') (880-39775-3), SW-4 (2') (880-39775-4), SW-9 (2') (880-39775-5), SW-10 (3.5') (880-39775-6), SW-11 (1.5') (880-39775-7), SW-12 (3.5') (880-39775-8), SW-13 (3.5') (880-39775-9), SW-15 (4.5') (880-39775-10), SW-16 (4.5') (880-39775-11), SW-27 (4.5') (880-39775-12), SW-30 (1.5') (880-39775-13) and SW-31 (1.5') (880-39775-14).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74049 and analytical batch 880-74123 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74123 recovered above the upper control limit for Toluene and Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-74123/20).

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-74020/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-74020/5-A). 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74100 and analytical batch 880-74229 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-74100 and analytical batch 880-74229 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74398 and analytical batch 880-74445 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-74398/2-A). Evidence of

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Case Narrative

Client: Carmona Resources
Project: Southern Comfort 5 6 10 12

Job ID: 880-39775-1

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matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-74398 and analytical batch 880-74445 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-74398 and analytical batch 880-74445 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-74445 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-74445/20).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74402 and analytical batch 880-74447 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-74402 and analytical batch 880-74447 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: CS-7 (4.75')

Lab Sample ID: 880-39775-1

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 17:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 17:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 17:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/26/24 11:26	02/27/24 17:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 17:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/26/24 11:26	02/27/24 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	02/26/24 11:26	02/27/24 17:32	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/26/24 11:26	02/27/24 17:32	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			02/27/24 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.1		50.0		mg/Kg			02/28/24 10:56	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 *1	50.0		mg/Kg		02/26/24 17:17	02/28/24 10:56	1
Diesel Range Organics (Over C10-C28)	62.1	+	50.0		mg/Kg		02/26/24 17:17	02/28/24 10:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/24 17:17	02/28/24 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	02/26/24 17:17	02/28/24 10:56	1
o-Terphenyl	124		70 - 130	02/26/24 17:17	02/28/24 10:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.5		4.97		mg/Kg			02/25/24 18:58	1

Client Sample ID: CS-15 (1.75')

Lab Sample ID: 880-39775-2

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 17:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 17:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 17:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 11:26	02/27/24 17:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 17:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 11:26	02/27/24 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	02/26/24 11:26	02/27/24 17:52	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/26/24 11:26	02/27/24 17:52	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: CS-15 (1.75')

Lab Sample ID: 880-39775-2

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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			02/27/24 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	92.7		50.1		mg/Kg			02/28/24 12:00	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 *1	50.1		mg/Kg		02/26/24 17:17	02/28/24 12:00	1
Diesel Range Organics (Over C10-C28)	92.7	*+	50.1		mg/Kg		02/26/24 17:17	02/28/24 12:00	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/26/24 17:17	02/28/24 12:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				02/26/24 17:17	02/28/24 12:00	1
o-Terphenyl	103		70 - 130				02/26/24 17:17	02/28/24 12:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		5.02		mg/Kg			02/25/24 19:12	1

Client Sample ID: CS-16 (1.75')

Lab Sample ID: 880-39775-3

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 18:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 18:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 18:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 11:26	02/27/24 18:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 18:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 11:26	02/27/24 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				02/26/24 11:26	02/27/24 18:13	1
1,4-Difluorobenzene (Surr)	89		70 - 130				02/26/24 11:26	02/27/24 18:13	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			02/27/24 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.9		50.3		mg/Kg			02/28/24 12:22	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	<50.3	U *1	50.3		mg/Kg		02/26/24 17:17	02/28/24 12:22	1
Diesel Range Organics (Over C10-C28)	64.9	*+	50.3		mg/Kg		02/26/24 17:17	02/28/24 12:22	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: CS-16 (1.75')

Lab Sample ID: 880-39775-3

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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)	<50.3	U	50.3		mg/Kg		02/26/24 17:17	02/28/24 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				02/26/24 17:17	02/28/24 12:22	1
o-Terphenyl	106		70 - 130				02/26/24 17:17	02/28/24 12:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.5		4.98		mg/Kg			02/25/24 19:17	1

Client Sample ID: SW-4 (2')

Lab Sample ID: 880-39775-4

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 18:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/26/24 11:26	02/27/24 18:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/26/24 11:26	02/27/24 18:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/26/24 11:26	02/27/24 18:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/26/24 11:26	02/27/24 18:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/26/24 11:26	02/27/24 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				02/26/24 11:26	02/27/24 18:33	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/26/24 11:26	02/27/24 18:33	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			02/27/24 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	95.5		50.1		mg/Kg			02/28/24 12:44	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 *1	50.1		mg/Kg		02/26/24 17:17	02/28/24 12:44	1
Diesel Range Organics (Over C10-C28)	95.5	*+	50.1		mg/Kg		02/26/24 17:17	02/28/24 12:44	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/26/24 17:17	02/28/24 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				02/26/24 17:17	02/28/24 12:44	1
o-Terphenyl	126		70 - 130				02/26/24 17:17	02/28/24 12:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.0		5.00		mg/Kg			02/25/24 19:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-9 (2')

Lab Sample ID: 880-39775-5

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 18:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 18:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 18:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 11:26	02/27/24 18:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 18:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 11:26	02/27/24 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	02/26/24 11:26	02/27/24 18:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/26/24 11:26	02/27/24 18:54	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			02/27/24 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.3		49.7		mg/Kg			02/28/24 13:05	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 *1	49.7		mg/Kg		02/26/24 17:17	02/28/24 13:05	1
Diesel Range Organics (Over C10-C28)	69.3	+	49.7		mg/Kg		02/26/24 17:17	02/28/24 13:05	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/26/24 17:17	02/28/24 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	02/26/24 17:17	02/28/24 13:05	1
o-Terphenyl	114		70 - 130	02/26/24 17:17	02/28/24 13:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.3		4.98		mg/Kg			02/27/24 08:28	1

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-39775-6

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 19:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 19:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 19:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 11:26	02/27/24 19:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 11:26	02/27/24 19:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 11:26	02/27/24 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	02/26/24 11:26	02/27/24 19:14	1
1,4-Difluorobenzene (Surr)	89		70 - 130	02/26/24 11:26	02/27/24 19:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-39775-6

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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			02/27/24 19:14	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			03/01/24 18:33	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	<49.7	U	49.7		mg/Kg		02/29/24 15:18	03/01/24 18:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U ** *1	49.7		mg/Kg		02/29/24 15:18	03/01/24 18:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/29/24 15:18	03/01/24 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				02/29/24 15:18	03/01/24 18:33	1
o-Terphenyl	100		70 - 130				02/29/24 15:18	03/01/24 18:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.3		5.01		mg/Kg			02/25/24 19:35	1

Client Sample ID: SW-11 (1.5')

Lab Sample ID: 880-39775-7

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 11:26	02/27/24 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 11:26	02/27/24 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				02/26/24 11:26	02/27/24 19:35	1
1,4-Difluorobenzene (Surr)	86		70 - 130				02/26/24 11:26	02/27/24 19:35	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			02/27/24 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.7		49.9		mg/Kg			02/28/24 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	<49.9	U *1	49.9		mg/Kg		02/26/24 17:17	02/28/24 13:49	1
Diesel Range Organics (Over C10-C28)	67.7	**	49.9		mg/Kg		02/26/24 17:17	02/28/24 13:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-11 (1.5')

Lab Sample ID: 880-39775-7

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 17:17	02/28/24 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				02/26/24 17:17	02/28/24 13:49	1
o-Terphenyl	117		70 - 130				02/26/24 17:17	02/28/24 13:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.0		4.95		mg/Kg			02/25/24 19:40	1

Client Sample ID: SW-12 (3.5')

Lab Sample ID: 880-39775-8

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 19:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 19:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 19:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 11:26	02/27/24 19:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 11:26	02/27/24 19:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 11:26	02/27/24 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				02/26/24 11:26	02/27/24 19:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130				02/26/24 11:26	02/27/24 19:55	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			02/27/24 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.0		50.1		mg/Kg			03/01/24 14:26	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 *1	50.1		mg/Kg		02/29/24 15:52	03/01/24 14:26	1
Diesel Range Organics (Over C10-C28)	65.0	*+	50.1		mg/Kg		02/29/24 15:52	03/01/24 14:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/29/24 15:52	03/01/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				02/29/24 15:52	03/01/24 14:26	1
o-Terphenyl	99		70 - 130				02/29/24 15:52	03/01/24 14:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.2		5.05		mg/Kg			02/25/24 19:44	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-13 (3.5')

Lab Sample ID: 880-39775-9

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 20:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/26/24 11:26	02/27/24 20:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/26/24 11:26	02/27/24 20:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/26/24 11:26	02/27/24 20:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/26/24 11:26	02/27/24 20:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/26/24 11:26	02/27/24 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	02/26/24 11:26	02/27/24 20:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/26/24 11:26	02/27/24 20:16	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			02/27/24 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.5		50.2		mg/Kg			02/28/24 14:32	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	<50.2	U *1	50.2		mg/Kg		02/26/24 17:17	02/28/24 14:32	1
Diesel Range Organics (Over C10-C28)	69.5	+	50.2		mg/Kg		02/26/24 17:17	02/28/24 14:32	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/26/24 17:17	02/28/24 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	02/26/24 17:17	02/28/24 14:32	1
o-Terphenyl	108		70 - 130	02/26/24 17:17	02/28/24 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.2		5.04		mg/Kg			02/25/24 19:49	1

Client Sample ID: SW-15 (4.5')

Lab Sample ID: 880-39775-10

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 11:26	02/27/24 20:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 20:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 20:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/26/24 11:26	02/27/24 20:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 20:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/26/24 11:26	02/27/24 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	02/26/24 11:26	02/27/24 20:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/26/24 11:26	02/27/24 20:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-15 (4.5')

Lab Sample ID: 880-39775-10

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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			02/27/24 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.9		50.4		mg/Kg			03/01/24 14:48	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	<50.4	U *1	50.4		mg/Kg		02/29/24 15:52	03/01/24 14:48	1
Diesel Range Organics (Over C10-C28)	73.9	*+	50.4		mg/Kg		02/29/24 15:52	03/01/24 14:48	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/29/24 15:52	03/01/24 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				02/29/24 15:52	03/01/24 14:48	1
o-Terphenyl	72		70 - 130				02/29/24 15:52	03/01/24 14:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.0		5.00		mg/Kg			02/25/24 19:54	1

Client Sample ID: SW-16 (4.5')

Lab Sample ID: 880-39775-11

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 13:52	02/28/24 09:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 13:52	02/28/24 09:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 13:52	02/28/24 09:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 13:52	02/28/24 09:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 13:52	02/28/24 09:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 13:52	02/28/24 09:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				02/26/24 13:52	02/28/24 09:19	1
1,4-Difluorobenzene (Surr)	105		70 - 130				02/26/24 13:52	02/28/24 09:19	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			02/28/24 09:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.1		50.5		mg/Kg			02/28/24 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		02/26/24 17:17	02/28/24 15:36	1
Diesel Range Organics (Over C10-C28)	59.1	*+	50.5		mg/Kg		02/26/24 17:17	02/28/24 15:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-16 (4.5')

Lab Sample ID: 880-39775-11

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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)	<50.5	U	50.5		mg/Kg		02/26/24 17:17	02/28/24 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				02/26/24 17:17	02/28/24 15:36	1
o-Terphenyl	108		70 - 130				02/26/24 17:17	02/28/24 15:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.9		4.99		mg/Kg			02/25/24 19:58	1

Client Sample ID: SW-27 (4.5')

Lab Sample ID: 880-39775-12

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 13:52	02/28/24 09:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 13:52	02/28/24 09:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 13:52	02/28/24 09:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 13:52	02/28/24 09:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 13:52	02/28/24 09:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 13:52	02/28/24 09:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/26/24 13:52	02/28/24 09:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130				02/26/24 13:52	02/28/24 09:40	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			02/28/24 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.1		50.5		mg/Kg			03/01/24 15:10	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	<50.5	U *1	50.5		mg/Kg		02/29/24 15:52	03/01/24 15:10	1
Diesel Range Organics (Over C10-C28)	70.1	*+	50.5		mg/Kg		02/29/24 15:52	03/01/24 15:10	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/29/24 15:52	03/01/24 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				02/29/24 15:52	03/01/24 15:10	1
o-Terphenyl	82		70 - 130				02/29/24 15:52	03/01/24 15:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.5		4.98		mg/Kg			02/25/24 20:35	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-30 (1.5')

Lab Sample ID: 880-39775-13

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 13:52	02/28/24 10:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 13:52	02/28/24 10:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 13:52	02/28/24 10:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 13:52	02/28/24 10:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 13:52	02/28/24 10:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 13:52	02/28/24 10:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	02/26/24 13:52	02/28/24 10:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/26/24 13:52	02/28/24 10:00	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			02/28/24 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.3		50.0		mg/Kg			02/28/24 16:20	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 *1	50.0		mg/Kg		02/26/24 17:17	02/28/24 16:20	1
Diesel Range Organics (Over C10-C28)	60.3	+	50.0		mg/Kg		02/26/24 17:17	02/28/24 16:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/24 17:17	02/28/24 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	02/26/24 17:17	02/28/24 16:20	1
o-Terphenyl	92		70 - 130	02/26/24 17:17	02/28/24 16:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		5.04		mg/Kg			02/25/24 20:49	1

Client Sample ID: SW-31 (1.5')

Lab Sample ID: 880-39775-14

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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		02/26/24 13:52	02/28/24 10:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/26/24 13:52	02/28/24 10:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/26/24 13:52	02/28/24 10:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/26/24 13:52	02/28/24 10:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/26/24 13:52	02/28/24 10:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/26/24 13:52	02/28/24 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/26/24 13:52	02/28/24 10:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/26/24 13:52	02/28/24 10:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-31 (1.5')
Date Collected: 02/20/24 00:00
Date Received: 02/22/24 09:27

Lab Sample ID: 880-39775-14
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			02/28/24 10:21	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.9		49.7		mg/Kg			03/01/24 15:32	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 *1	49.7		mg/Kg		02/29/24 15:52	03/01/24 15:32	1
Diesel Range Organics (Over C10-C28)	73.9	*+	49.7		mg/Kg		02/29/24 15:52	03/01/24 15:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/29/24 15:52	03/01/24 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				02/29/24 15:52	03/01/24 15:32	1
o-Terphenyl	102		70 - 130				02/29/24 15:52	03/01/24 15:32	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.2		5.02		mg/Kg			02/25/24 20:54	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
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	DFBZ1
		(70-130)	(70-130)
880-39775-1	CS-7 (4.75')	75	102
880-39775-2	CS-15 (1.75')	79	93
880-39775-3	CS-16 (1.75')	94	89
880-39775-4	SW-4 (2')	78	95
880-39775-5	SW-9 (2')	78	98
880-39775-6	SW-10 (3.5')	82	89
880-39775-7	SW-11 (1.5')	81	86
880-39775-8	SW-12 (3.5')	82	104
880-39775-9	SW-13 (3.5')	80	96
880-39775-10	SW-15 (4.5')	80	94
880-39775-11	SW-16 (4.5')	116	105
880-39775-12	SW-27 (4.5')	110	99
880-39775-13	SW-30 (1.5')	114	105
880-39775-14	SW-31 (1.5')	112	103
890-6232-A-21-C MS	Matrix Spike	104	116
890-6232-A-21-D MSD	Matrix Spike Duplicate	104	124
890-6233-A-1-C MS	Matrix Spike	124	100
890-6233-A-1-D MSD	Matrix Spike Duplicate	108	102
LCS 880-74020/1-A	Lab Control Sample	105	132 S1+
LCS 880-74049/1-A	Lab Control Sample	100	99
LCSD 880-74020/2-A	Lab Control Sample Dup	104	128
LCSD 880-74049/2-A	Lab Control Sample Dup	114	96
MB 880-74020/5-A	Method Blank	65 S1-	101
MB 880-74021/5-A	Method Blank	129	129
MB 880-74049/5-A	Method Blank	135 S1+	130

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-39775-1	CS-7 (4.75')	118	124
880-39775-1 MS	CS-7 (4.75')	93	88
880-39775-1 MSD	CS-7 (4.75')	107	99
880-39775-2	CS-15 (1.75')	97	103
880-39775-3	CS-16 (1.75')	100	106
880-39775-4	SW-4 (2')	125	126
880-39775-5	SW-9 (2')	113	114
880-39775-6	SW-10 (3.5')	118	100
880-39775-7	SW-11 (1.5')	111	117
880-39775-8	SW-12 (3.5')	95	99
880-39775-9	SW-13 (3.5')	101	108
880-39775-10	SW-15 (4.5')	70	72
880-39775-11	SW-16 (4.5')	100	108
880-39775-12	SW-27 (4.5')	81	82

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Surrogate Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-39775-13	SW-30 (1.5')	87	92
880-39775-14	SW-31 (1.5')	98	102
880-40068-A-1-H MS	Matrix Spike	97	76
880-40068-A-1-I MSD	Matrix Spike Duplicate	100	81
880-40083-A-1-E MS	Matrix Spike	110	107
880-40083-A-1-F MSD	Matrix Spike Duplicate	111	108
LCS 880-74100/2-A	Lab Control Sample	120	121
LCS 880-74398/2-A	Lab Control Sample	155 S1+	159 S1+
LCS 880-74402/2-A	Lab Control Sample	115	119
LCSD 880-74100/3-A	Lab Control Sample Dup	103	104
LCSD 880-74398/3-A	Lab Control Sample Dup	105	102
LCSD 880-74402/3-A	Lab Control Sample Dup	96	99
MB 880-74100/1-A	Method Blank	195 S1+	228 S1+
MB 880-74398/1-A	Method Blank	160 S1+	148 S1+
MB 880-74402/1-A	Method Blank	163 S1+	180 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74020/5-A

Matrix: Solid

Analysis Batch: 74124

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 12:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 12:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/26/24 11:26	02/27/24 12:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:26	02/27/24 12:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/26/24 11:26	02/27/24 12:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	02/26/24 11:26	02/27/24 12:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/26/24 11:26	02/27/24 12:41	1

Lab Sample ID: LCS 880-74020/1-A

Matrix: Solid

Analysis Batch: 74124

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1015		mg/Kg		101	70 - 130
Toluene	0.100	0.09317		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09768		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2032		mg/Kg		102	70 - 130
o-Xylene	0.100	0.09901		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130

Lab Sample ID: LCSD 880-74020/2-A

Matrix: Solid

Analysis Batch: 74124

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74020

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1042		mg/Kg		104	70 - 130	3	35
Toluene	0.100	0.09461		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.09975		mg/Kg		100	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		103	70 - 130	1	35
o-Xylene	0.100	0.09950		mg/Kg		100	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	128		70 - 130

Lab Sample ID: 890-6232-A-21-C MS

Matrix: Solid

Analysis Batch: 74124

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 74020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1015		mg/Kg		101	70 - 130
Toluene	<0.00199	U	0.101	0.09617		mg/Kg		95	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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

Lab Sample ID: 890-6232-A-21-C MS

Matrix: Solid

Analysis Batch: 74124

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 74020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.09734		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1974		mg/Kg		98	70 - 130
o-Xylene	<0.00199	U	0.101	0.09561		mg/Kg		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 890-6232-A-21-D MSD

Matrix: Solid

Analysis Batch: 74124

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 74020

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.09090		mg/Kg		91	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.08455		mg/Kg		85	70 - 130	13	35
Ethylbenzene	<0.00199	U	0.100	0.08689		mg/Kg		87	70 - 130	11	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1790		mg/Kg		90	70 - 130	10	35
o-Xylene	<0.00199	U	0.100	0.08712		mg/Kg		87	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Lab Sample ID: MB 880-74021/5-A

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:29	02/27/24 14:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:29	02/27/24 14:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:29	02/27/24 14:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/26/24 11:29	02/27/24 14:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 11:29	02/27/24 14:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/26/24 11:29	02/27/24 14:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	02/26/24 11:29	02/27/24 14:15	1
1,4-Difluorobenzene (Surr)	129		70 - 130	02/26/24 11:29	02/27/24 14:15	1

Lab Sample ID: MB 880-74049/5-A

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 13:52	02/28/24 01:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 13:52	02/28/24 01:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 13:52	02/28/24 01:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/26/24 13:52	02/28/24 01:53	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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

Lab Sample ID: MB 880-74049/5-A

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 13:52	02/28/24 01:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/26/24 13:52	02/28/24 01:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	02/26/24 13:52	02/28/24 01:53	1
1,4-Difluorobenzene (Surr)	130		70 - 130	02/26/24 13:52	02/28/24 01:53	1

Lab Sample ID: LCS 880-74049/1-A

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1160		mg/Kg		116	70 - 130
Toluene	0.100	0.1063		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1247		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	0.200	0.2118		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-74049/2-A

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74049

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1153		mg/Kg		115	70 - 130	1	35
Toluene	0.100	0.1097		mg/Kg		110	70 - 130	3	35
Ethylbenzene	0.100	0.1165		mg/Kg		116	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130	4	35
o-Xylene	0.100	0.1155		mg/Kg		116	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-6233-A-1-C MS

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 74049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.09725		mg/Kg		96	70 - 130
Toluene	<0.00199	U	0.101	0.09650		mg/Kg		96	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1129		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2162		mg/Kg		107	70 - 130
o-Xylene	<0.00199	U	0.101	0.09884		mg/Kg		98	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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

Lab Sample ID: 890-6233-A-1-C MS
Matrix: Solid
Analysis Batch: 74123

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74049

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-6233-A-1-D MSD
Matrix: Solid
Analysis Batch: 74123

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1073		mg/Kg		107	70 - 130	10	35
Toluene	<0.00199	U	0.100	0.1022		mg/Kg		102	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.100	0.1029		mg/Kg		103	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1780		mg/Kg		89	70 - 130	19	35
o-Xylene	<0.00199	U	0.100	0.09361		mg/Kg		93	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-74100/1-A
Matrix: Solid
Analysis Batch: 74229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74100

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		02/26/24 17:17	02/28/24 08:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/26/24 17:17	02/28/24 08:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/24 17:17	02/28/24 08:25	1

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	195	S1+	70 - 130
o-Terphenyl	228	S1+	70 - 130

	Prepared	Analyzed	Dil Fac
1-Chlorooctane	02/26/24 17:17	02/28/24 08:25	1
o-Terphenyl	02/26/24 17:17	02/28/24 08:25	1

Lab Sample ID: LCS 880-74100/2-A
Matrix: Solid
Analysis Batch: 74229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1284		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1383	*+	mg/Kg		138	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	121		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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

Lab Sample ID: LCSD 880-74100/3-A

Matrix: Solid

Analysis Batch: 74229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1007	*1	mg/Kg		101	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	1186		mg/Kg		119	70 - 130	15	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 880-39775-1 MS

Matrix: Solid

Analysis Batch: 74229

Client Sample ID: CS-7 (4.75')

Prep Type: Total/NA

Prep Batch: 74100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	1010	881.0		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	62.1	*+	1010	928.0		mg/Kg		86	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	88		70 - 130								

Lab Sample ID: 880-39775-1 MSD

Matrix: Solid

Analysis Batch: 74229

Client Sample ID: CS-7 (4.75')

Prep Type: Total/NA

Prep Batch: 74100

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 *1	1010	945.2		mg/Kg		89	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	62.1	*+	1010	1045		mg/Kg		97	70 - 130	12	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: MB 880-74398/1-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74398

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		02/29/24 15:18	03/01/24 06:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/29/24 15:18	03/01/24 06:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/29/24 15:18	03/01/24 06:27	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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

Lab Sample ID: MB 880-74398/1-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74398

Surrogate	MB MB		Limits	Prepared		Analyzed	Dil Fac
	%Recovery	Qualifier					
1-Chlorooctane	160	S1+	70 - 130	02/29/24 15:18		03/01/24 06:27	1
o-Terphenyl	148	S1+	70 - 130	02/29/24 15:18		03/01/24 06:27	1

Lab Sample ID: LCS 880-74398/2-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	876.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1332	*+	mg/Kg		133	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

Lab Sample ID: LCSD 880-74398/3-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	812.2		mg/Kg		81	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	889.3	*1	mg/Kg		89	70 - 130	40	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	105		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-40068-A-1-H MS

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 74398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	1010	1268		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U *+ *1	1010	914.9		mg/Kg		88	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	97		70 - 130
o-Terphenyl	76		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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

Lab Sample ID: 880-40068-A-1-I MSD

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 74398

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	<49.7	U	1010	1272		mg/Kg		123	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.7	U *+ *1	1010	970.4		mg/Kg		94	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	81		70 - 130								

Lab Sample ID: MB 880-74402/1-A

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74402

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		02/29/24 15:51	03/01/24 06:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/29/24 15:51	03/01/24 06:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/29/24 15:51	03/01/24 06:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130				02/29/24 15:51	03/01/24 06:27	1
o-Terphenyl	180	S1+	70 - 130				02/29/24 15:51	03/01/24 06:27	1

Lab Sample ID: LCS 880-74402/2-A

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1220		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1334	*+	mg/Kg		133	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	119		70 - 130						

Lab Sample ID: LCSD 880-74402/3-A

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74402

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	956.7	*1	mg/Kg		96	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	1122		mg/Kg		112	70 - 130	17	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

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

Lab Sample ID: LCSD 880-74402/3-A

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74402

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-40083-A-1-E MS

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 74402

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	955.1		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+	1000	990.9		mg/Kg		96	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	110		70 - 130								
o-Terphenyl	107		70 - 130								

Lab Sample ID: 880-40083-A-1-F MSD

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 74402

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	998.1		mg/Kg		100	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	1000	1002		mg/Kg		97	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	111		70 - 130								
o-Terphenyl	108		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73849/1-A

Matrix: Solid

Analysis Batch: 73933

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			02/25/24 17:39	1

Lab Sample ID: LCS 880-73849/2-A

Matrix: Solid

Analysis Batch: 73933

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.8		mg/Kg		94	90 - 110

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-73849/3-A

Matrix: Solid

Analysis Batch: 73933

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	236.9		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-39775-1 MS

Matrix: Solid

Analysis Batch: 73933

Client Sample ID: CS-7 (4.75')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	51.5		249	300.6		mg/Kg		100	90 - 110		

Lab Sample ID: 880-39775-1 MSD

Matrix: Solid

Analysis Batch: 73933

Client Sample ID: CS-7 (4.75')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	51.5		249	300.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-73891/1-A

Matrix: Solid

Analysis Batch: 73935

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			02/25/24 20:21	1

Lab Sample ID: LCS 880-73891/2-A

Matrix: Solid

Analysis Batch: 73935

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.5		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-73891/3-A

Matrix: Solid

Analysis Batch: 73935

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	239.3		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-39775-12 MS

Matrix: Solid

Analysis Batch: 73935

Client Sample ID: SW-27 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	78.5		249	341.3		mg/Kg		106	90 - 110		

Lab Sample ID: 880-39775-12 MSD

Matrix: Solid

Analysis Batch: 73935

Client Sample ID: SW-27 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	78.5		249	342.2		mg/Kg		106	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74048/1-A Matrix: Solid Analysis Batch: 74106										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			02/27/24 07:56	1		
Lab Sample ID: LCS 880-74048/2-A Matrix: Solid Analysis Batch: 74106										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		
Lab Sample ID: LCSD 880-74048/3-A Matrix: Solid Analysis Batch: 74106										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	252.2		mg/Kg		101	90 - 110	1	20
Lab Sample ID: 880-39896-A-1-B MS Matrix: Solid Analysis Batch: 74106										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	215		250	445.7		mg/Kg		93	90 - 110		
Lab Sample ID: 880-39896-A-1-C MSD Matrix: Solid Analysis Batch: 74106										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	215		250	446.9		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

GC VOA

Prep Batch: 74020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-1	CS-7 (4.75')	Total/NA	Solid	5035	
880-39775-2	CS-15 (1.75')	Total/NA	Solid	5035	
880-39775-3	CS-16 (1.75')	Total/NA	Solid	5035	
880-39775-4	SW-4 (2')	Total/NA	Solid	5035	
880-39775-5	SW-9 (2')	Total/NA	Solid	5035	
880-39775-6	SW-10 (3.5')	Total/NA	Solid	5035	
880-39775-7	SW-11 (1.5')	Total/NA	Solid	5035	
880-39775-8	SW-12 (3.5')	Total/NA	Solid	5035	
880-39775-9	SW-13 (3.5')	Total/NA	Solid	5035	
880-39775-10	SW-15 (4.5')	Total/NA	Solid	5035	
MB 880-74020/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74020/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74020/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6232-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6232-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 74021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74021/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-11	SW-16 (4.5')	Total/NA	Solid	5035	
880-39775-12	SW-27 (4.5')	Total/NA	Solid	5035	
880-39775-13	SW-30 (1.5')	Total/NA	Solid	5035	
880-39775-14	SW-31 (1.5')	Total/NA	Solid	5035	
MB 880-74049/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74049/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74049/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6233-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6233-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 74123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-11	SW-16 (4.5')	Total/NA	Solid	8021B	74049
880-39775-12	SW-27 (4.5')	Total/NA	Solid	8021B	74049
880-39775-13	SW-30 (1.5')	Total/NA	Solid	8021B	74049
880-39775-14	SW-31 (1.5')	Total/NA	Solid	8021B	74049
MB 880-74021/5-A	Method Blank	Total/NA	Solid	8021B	74021
MB 880-74049/5-A	Method Blank	Total/NA	Solid	8021B	74049
LCS 880-74049/1-A	Lab Control Sample	Total/NA	Solid	8021B	74049
LCSD 880-74049/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74049
890-6233-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	74049
890-6233-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74049

Analysis Batch: 74124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-1	CS-7 (4.75')	Total/NA	Solid	8021B	74020
880-39775-2	CS-15 (1.75')	Total/NA	Solid	8021B	74020
880-39775-3	CS-16 (1.75')	Total/NA	Solid	8021B	74020
880-39775-4	SW-4 (2')	Total/NA	Solid	8021B	74020

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QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

GC VOA (Continued)

Analysis Batch: 74124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-5	SW-9 (2')	Total/NA	Solid	8021B	74020
880-39775-6	SW-10 (3.5')	Total/NA	Solid	8021B	74020
880-39775-7	SW-11 (1.5')	Total/NA	Solid	8021B	74020
880-39775-8	SW-12 (3.5')	Total/NA	Solid	8021B	74020
880-39775-9	SW-13 (3.5')	Total/NA	Solid	8021B	74020
880-39775-10	SW-15 (4.5')	Total/NA	Solid	8021B	74020
MB 880-74020/5-A	Method Blank	Total/NA	Solid	8021B	74020
LCS 880-74020/1-A	Lab Control Sample	Total/NA	Solid	8021B	74020
LCSD 880-74020/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74020
890-6232-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	74020
890-6232-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74020

Analysis Batch: 74286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-1	CS-7 (4.75')	Total/NA	Solid	Total BTEX	
880-39775-2	CS-15 (1.75')	Total/NA	Solid	Total BTEX	
880-39775-3	CS-16 (1.75')	Total/NA	Solid	Total BTEX	
880-39775-4	SW-4 (2')	Total/NA	Solid	Total BTEX	
880-39775-5	SW-9 (2')	Total/NA	Solid	Total BTEX	
880-39775-6	SW-10 (3.5')	Total/NA	Solid	Total BTEX	
880-39775-7	SW-11 (1.5')	Total/NA	Solid	Total BTEX	
880-39775-8	SW-12 (3.5')	Total/NA	Solid	Total BTEX	
880-39775-9	SW-13 (3.5')	Total/NA	Solid	Total BTEX	
880-39775-10	SW-15 (4.5')	Total/NA	Solid	Total BTEX	
880-39775-11	SW-16 (4.5')	Total/NA	Solid	Total BTEX	
880-39775-12	SW-27 (4.5')	Total/NA	Solid	Total BTEX	
880-39775-13	SW-30 (1.5')	Total/NA	Solid	Total BTEX	
880-39775-14	SW-31 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-1	CS-7 (4.75')	Total/NA	Solid	8015NM Prep	
880-39775-2	CS-15 (1.75')	Total/NA	Solid	8015NM Prep	
880-39775-3	CS-16 (1.75')	Total/NA	Solid	8015NM Prep	
880-39775-4	SW-4 (2')	Total/NA	Solid	8015NM Prep	
880-39775-5	SW-9 (2')	Total/NA	Solid	8015NM Prep	
880-39775-7	SW-11 (1.5')	Total/NA	Solid	8015NM Prep	
880-39775-9	SW-13 (3.5')	Total/NA	Solid	8015NM Prep	
880-39775-11	SW-16 (4.5')	Total/NA	Solid	8015NM Prep	
880-39775-13	SW-30 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-74100/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74100/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74100/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39775-1 MS	CS-7 (4.75')	Total/NA	Solid	8015NM Prep	
880-39775-1 MSD	CS-7 (4.75')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-1	CS-7 (4.75')	Total/NA	Solid	8015B NM	74100

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

GC Semi VOA (Continued)

Analysis Batch: 74229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-2	CS-15 (1.75')	Total/NA	Solid	8015B NM	74100
880-39775-3	CS-16 (1.75')	Total/NA	Solid	8015B NM	74100
880-39775-4	SW-4 (2')	Total/NA	Solid	8015B NM	74100
880-39775-5	SW-9 (2')	Total/NA	Solid	8015B NM	74100
880-39775-7	SW-11 (1.5')	Total/NA	Solid	8015B NM	74100
880-39775-9	SW-13 (3.5')	Total/NA	Solid	8015B NM	74100
880-39775-11	SW-16 (4.5')	Total/NA	Solid	8015B NM	74100
880-39775-13	SW-30 (1.5')	Total/NA	Solid	8015B NM	74100
MB 880-74100/1-A	Method Blank	Total/NA	Solid	8015B NM	74100
LCS 880-74100/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74100
LCSD 880-74100/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74100
880-39775-1 MS	CS-7 (4.75')	Total/NA	Solid	8015B NM	74100
880-39775-1 MSD	CS-7 (4.75')	Total/NA	Solid	8015B NM	74100

Analysis Batch: 74358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-1	CS-7 (4.75')	Total/NA	Solid	8015 NM	
880-39775-2	CS-15 (1.75')	Total/NA	Solid	8015 NM	
880-39775-3	CS-16 (1.75')	Total/NA	Solid	8015 NM	
880-39775-4	SW-4 (2')	Total/NA	Solid	8015 NM	
880-39775-5	SW-9 (2')	Total/NA	Solid	8015 NM	
880-39775-6	SW-10 (3.5')	Total/NA	Solid	8015 NM	
880-39775-7	SW-11 (1.5')	Total/NA	Solid	8015 NM	
880-39775-8	SW-12 (3.5')	Total/NA	Solid	8015 NM	
880-39775-9	SW-13 (3.5')	Total/NA	Solid	8015 NM	
880-39775-10	SW-15 (4.5')	Total/NA	Solid	8015 NM	
880-39775-11	SW-16 (4.5')	Total/NA	Solid	8015 NM	
880-39775-12	SW-27 (4.5')	Total/NA	Solid	8015 NM	
880-39775-13	SW-30 (1.5')	Total/NA	Solid	8015 NM	
880-39775-14	SW-31 (1.5')	Total/NA	Solid	8015 NM	

Prep Batch: 74398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-6	SW-10 (3.5')	Total/NA	Solid	8015NM Prep	
MB 880-74398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40068-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-40068-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 74402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-8	SW-12 (3.5')	Total/NA	Solid	8015NM Prep	
880-39775-10	SW-15 (4.5')	Total/NA	Solid	8015NM Prep	
880-39775-12	SW-27 (4.5')	Total/NA	Solid	8015NM Prep	
880-39775-14	SW-31 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-74402/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74402/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40083-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-40083-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

GC Semi VOA

Analysis Batch: 74445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-6	SW-10 (3.5')	Total/NA	Solid	8015B NM	74398
MB 880-74398/1-A	Method Blank	Total/NA	Solid	8015B NM	74398
LCS 880-74398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74398
LCSD 880-74398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74398
880-40068-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	74398
880-40068-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74398

Analysis Batch: 74447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-8	SW-12 (3.5')	Total/NA	Solid	8015B NM	74402
880-39775-10	SW-15 (4.5')	Total/NA	Solid	8015B NM	74402
880-39775-12	SW-27 (4.5')	Total/NA	Solid	8015B NM	74402
880-39775-14	SW-31 (1.5')	Total/NA	Solid	8015B NM	74402
MB 880-74402/1-A	Method Blank	Total/NA	Solid	8015B NM	74402
LCS 880-74402/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74402
LCSD 880-74402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74402
880-40083-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	74402
880-40083-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74402

HPLC/IC

Leach Batch: 73849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-1	CS-7 (4.75')	Soluble	Solid	DI Leach	
880-39775-2	CS-15 (1.75')	Soluble	Solid	DI Leach	
880-39775-3	CS-16 (1.75')	Soluble	Solid	DI Leach	
880-39775-4	SW-4 (2')	Soluble	Solid	DI Leach	
880-39775-6	SW-10 (3.5')	Soluble	Solid	DI Leach	
880-39775-7	SW-11 (1.5')	Soluble	Solid	DI Leach	
880-39775-8	SW-12 (3.5')	Soluble	Solid	DI Leach	
880-39775-9	SW-13 (3.5')	Soluble	Solid	DI Leach	
880-39775-10	SW-15 (4.5')	Soluble	Solid	DI Leach	
880-39775-11	SW-16 (4.5')	Soluble	Solid	DI Leach	
MB 880-73849/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73849/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73849/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39775-1 MS	CS-7 (4.75')	Soluble	Solid	DI Leach	
880-39775-1 MSD	CS-7 (4.75')	Soluble	Solid	DI Leach	

Leach Batch: 73891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-12	SW-27 (4.5')	Soluble	Solid	DI Leach	
880-39775-13	SW-30 (1.5')	Soluble	Solid	DI Leach	
880-39775-14	SW-31 (1.5')	Soluble	Solid	DI Leach	
MB 880-73891/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73891/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73891/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39775-12 MS	SW-27 (4.5')	Soluble	Solid	DI Leach	
880-39775-12 MSD	SW-27 (4.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

HPLC/IC

Analysis Batch: 73933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-1	CS-7 (4.75')	Soluble	Solid	300.0	73849
880-39775-2	CS-15 (1.75')	Soluble	Solid	300.0	73849
880-39775-3	CS-16 (1.75')	Soluble	Solid	300.0	73849
880-39775-4	SW-4 (2')	Soluble	Solid	300.0	73849
880-39775-6	SW-10 (3.5')	Soluble	Solid	300.0	73849
880-39775-7	SW-11 (1.5')	Soluble	Solid	300.0	73849
880-39775-8	SW-12 (3.5')	Soluble	Solid	300.0	73849
880-39775-9	SW-13 (3.5')	Soluble	Solid	300.0	73849
880-39775-10	SW-15 (4.5')	Soluble	Solid	300.0	73849
880-39775-11	SW-16 (4.5')	Soluble	Solid	300.0	73849
MB 880-73849/1-A	Method Blank	Soluble	Solid	300.0	73849
LCS 880-73849/2-A	Lab Control Sample	Soluble	Solid	300.0	73849
LCSD 880-73849/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73849
880-39775-1 MS	CS-7 (4.75')	Soluble	Solid	300.0	73849
880-39775-1 MSD	CS-7 (4.75')	Soluble	Solid	300.0	73849

Analysis Batch: 73935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-12	SW-27 (4.5')	Soluble	Solid	300.0	73891
880-39775-13	SW-30 (1.5')	Soluble	Solid	300.0	73891
880-39775-14	SW-31 (1.5')	Soluble	Solid	300.0	73891
MB 880-73891/1-A	Method Blank	Soluble	Solid	300.0	73891
LCS 880-73891/2-A	Lab Control Sample	Soluble	Solid	300.0	73891
LCSD 880-73891/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73891
880-39775-12 MS	SW-27 (4.5')	Soluble	Solid	300.0	73891
880-39775-12 MSD	SW-27 (4.5')	Soluble	Solid	300.0	73891

Leach Batch: 74048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-5	SW-9 (2')	Soluble	Solid	DI Leach	
MB 880-74048/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74048/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74048/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39896-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-39896-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 74106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39775-5	SW-9 (2')	Soluble	Solid	300.0	74048
MB 880-74048/1-A	Method Blank	Soluble	Solid	300.0	74048
LCS 880-74048/2-A	Lab Control Sample	Soluble	Solid	300.0	74048
LCSD 880-74048/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74048
880-39896-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	74048
880-39896-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	74048

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: CS-7 (4.75')**Lab Sample ID: 880-39775-1****Date Collected: 02/20/24 00:00****Matrix: Solid****Date Received: 02/22/24 09:27**

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	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 17:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 17:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	02/28/24 10:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 10:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 18:58	CH	EET MID

Client Sample ID: CS-15 (1.75')**Lab Sample ID: 880-39775-2****Date Collected: 02/20/24 00:00****Matrix: Solid****Date Received: 02/22/24 09:27**

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	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 17:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 17:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	02/28/24 12:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 12:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:12	CH	EET MID

Client Sample ID: CS-16 (1.75')**Lab Sample ID: 880-39775-3****Date Collected: 02/20/24 00:00****Matrix: Solid****Date Received: 02/22/24 09:27**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 18:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 18:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	02/28/24 12:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 12:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:17	CH	EET MID

Client Sample ID: SW-4 (2')**Lab Sample ID: 880-39775-4****Date Collected: 02/20/24 00:00****Matrix: Solid****Date Received: 02/22/24 09:27**

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	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 18:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 18:33	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-4 (2')
Date Collected: 02/20/24 00:00
Date Received: 02/22/24 09:27

Lab Sample ID: 880-39775-4
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			74358	02/28/24 12:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 12:44	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:30	CH	EET MID

Client Sample ID: SW-9 (2')
Date Collected: 02/20/24 00:00
Date Received: 02/22/24 09:27

Lab Sample ID: 880-39775-5
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	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 18:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 18:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	02/28/24 13:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 13:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74048	02/26/24 13:40	SMC	EET MID
Soluble	Analysis	300.0		1			74106	02/27/24 08:28	CH	EET MID

Client Sample ID: SW-10 (3.5')
Date Collected: 02/20/24 00:00
Date Received: 02/22/24 09:27

Lab Sample ID: 880-39775-6
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			4.98 g	5 mL	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 19:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 19:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	03/01/24 18:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74398	02/29/24 15:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 18:33	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:35	CH	EET MID

Client Sample ID: SW-11 (1.5')
Date Collected: 02/20/24 00:00
Date Received: 02/22/24 09:27

Lab Sample ID: 880-39775-7
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	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	02/28/24 13:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 13:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-11 (1.5')

Lab Sample ID: 880-39775-7

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:40	CH	EET MID

Client Sample ID: SW-12 (3.5')

Lab Sample ID: 880-39775-8

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 19:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 19:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	03/01/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:44	CH	EET MID

Client Sample ID: SW-13 (3.5')

Lab Sample ID: 880-39775-9

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 20:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	02/28/24 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 14:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:49	CH	EET MID

Client Sample ID: SW-15 (4.5')

Lab Sample ID: 880-39775-10

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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	74020	02/26/24 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74124	02/27/24 20:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/27/24 20:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	03/01/24 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 14:48	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:54	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-16 (4.5')

Lab Sample ID: 880-39775-11

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74049	02/26/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74123	02/28/24 09:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/28/24 09:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	02/28/24 15:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 15:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73849	02/22/24 12:30	SMC	EET MID
Soluble	Analysis	300.0		1			73933	02/25/24 19:58	CH	EET MID

Client Sample ID: SW-27 (4.5')

Lab Sample ID: 880-39775-12

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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	74049	02/26/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74123	02/28/24 09:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/28/24 09:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	03/01/24 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 15:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73891	02/22/24 16:31	SA	EET MID
Soluble	Analysis	300.0		1			73935	02/25/24 20:35	CH	EET MID

Client Sample ID: SW-30 (1.5')

Lab Sample ID: 880-39775-13

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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	74049	02/26/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74123	02/28/24 10:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/28/24 10:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			74358	02/28/24 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74100	02/26/24 17:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74229	02/28/24 16:20	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73891	02/22/24 16:31	SA	EET MID
Soluble	Analysis	300.0		1			73935	02/25/24 20:49	CH	EET MID

Client Sample ID: SW-31 (1.5')

Lab Sample ID: 880-39775-14

Date Collected: 02/20/24 00:00

Matrix: Solid

Date Received: 02/22/24 09:27

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	74049	02/26/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74123	02/28/24 10:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74286	02/28/24 10:21	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Client Sample ID: SW-31 (1.5')
Date Collected: 02/20/24 00:00
Date Received: 02/22/24 09:27

Lab Sample ID: 880-39775-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			74358	03/01/24 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 15:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73891	02/22/24 16:31	SA	EET MID
Soluble	Analysis	300.0		1			73935	02/25/24 20:54	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: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
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: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
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: Southern Comfort 5 6 10 12

Job ID: 880-39775-1
SDG: Eddy County ,New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-39775-1	CS-7 (4.75')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-2	CS-15 (1.75')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-3	CS-16 (1.75')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-4	SW-4 (2')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-5	SW-9 (2')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-6	SW-10 (3.5')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-7	SW-11 (1.5')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-8	SW-12 (3.5')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-9	SW-13 (3.5')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-10	SW-15 (4.5')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-11	SW-16 (4.5')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-12	SW-27 (4.5')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-13	SW-30 (1.5')	Solid	02/20/24 00:00	02/22/24 09:27
880-39775-14	SW-31 (1.5')	Solid	02/20/24 00:00	02/22/24 09:27

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Work Order No: 39115

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name:	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	lcastro@marathonoil.com

Program, UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Spill Fund ☐	
State of Project: ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other ☐	

Project Name		Southern Comfort 5 6 10 12		Turn Around		ANALYSIS REQUEST												Preservative Codes							
Project Number	2173		☒ Routine	☐ Rush	Pres. Code													None NO	DI Water H ₂ O						
Project Location	Eddy County New Mexico		Due Date	5 day														Cool Cool	MeOH Me						
Sample's Name	CCM																		HCL HC	HNO ₃ HN					
PO #:	TA.23 03143																		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	Correction Factor																	Na ₂ S ₂ O ₃ NaSO ₃						
Sample Custody Seals	Yes No	Temperature Reading																	Zn Acetate+NaOH Zn						
Total Containers			Corrected Temperature																	NaOH+Ascorbic Acid	SAPC				
Sample Identification			Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments				
CS-7 (4 75)			2/20/2024		X		Comp	1	X	X	X														
CS-15 (1 75)			2/20/2024		X		Comp	1	X	X	X														
CS-16 (1 75)			2/20/2024		X		Comp	1	X	X	X														
SW-4 (2)			2/20/2024		X		Comp	1	X	X	X														
SW-9 (2)			2/20/2024		X		Comp	1	X	X	X														
SW-10 (3 5)			2/20/2024		X		Comp	1	X	X	X														
SW-11 (1 5)			2/20/2024		X		Comp	1	X	X	X														
SW-12 (3 5)			2/20/2024		X		Comp	1	X	X	X														
SW-13 (3 5)			2/20/2024		X		Comp	1	X	X	X														
SW-15 (4 5)			2/20/2024		X		Comp	1	X	X	X														



880-39775 Chain of Custody

Hold

NaOH+Ascorbic Acid SAPC



880-39775 Chain of Custody

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt merrittc@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	2-22-24		2-22-24

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Carmona Resources

Work Order No: 39775

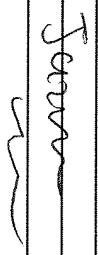
Page 2 of 2

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	lcastro@marathonoil.com

Program UST/PST ☐ PRP ☐ Rowfields ☐ FRC ☐ Iperfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ PRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Southern Comfort 5 6 10 12		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number	2173		☒ Routine	☐ Rush		None NO	DI Water H ₂ O																
Project Location	Eddy County New Mexico		Due Date	5 day																			
Sample's Name	CCM																						
PO #	TA.23 03143																						
SAMPLE RECEIPT			Temp Blank	Yes (No)	Well Ice	Yes No																	
Received Intact	Yes (No)	Thermometer ID																					
Cooler Custody Seals	Yes No	Correction Factor																					
Sample Custody Seals	Yes No	Temperature Reading																					
Total Containers	Corrected Temperature																						
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																	
	SW-16 (4 5)	2/20/2024		X	Comp	1	X	X	X														
	SW-27 (4 5)	2/20/2024		X	Comp	1	X	X	X														
	SW-30 (1 5)	2/20/2024		X	Comp	1	X	X	X														
SW-31 (1 5)	2/20/2024		X	Comp	1	X	X	X															
Loc: 880																							
39775																							

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt merrittc@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	2-22-24		2-22-24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-39775-1
SDG Number: Eddy County ,New Mexico

Login Number: 39775
List Number: 1
Creator: Wheeler, Jazmine

List Source: Eurofins Midland

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 323569

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	323569
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2329764387
Incident Name	NAPP2329764387 SOUTHERN COMFORT 561012 TB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2126039206] SOUTHERN COMFORT 561012 TB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SOUTHERN COMFORT 561012 TB
Date Release Discovered	10/21/2023
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	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications 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: Corrosion Flow Line - Production Produced Water Released: 24 BBL Recovered: 0 BBL Lost: 24 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 323569

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
	372098
	Action Number:
	323569
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 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: Isaac Castro Email: icastro@marathonoil.com Date: 12/11/2023
--	---

District I

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Phone:(575) 393-6161 Fax:(575) 393-0720

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

QUESTIONS, Page 3

Action 323569

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
	372098
	Action Number:
	323569
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 75 and 100 (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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (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	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (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)	7740
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	59.3
GRO+DRO	(EPA SW-846 Method 8015M)	59.3
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	01/21/2024
On what date will (or did) the final sampling or liner inspection occur	01/23/2024
On what date will (or was) the remediation complete(d)	01/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
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	1454
What is the estimated volume (in cubic yards) that will be remediated	250

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 323569

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	323569
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icaastro@marathonoil.com Date: 12/11/2023
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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 5

Action 323569

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 323569
	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 323569

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
	372098
	Action Number:
	323569
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	314701
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2024
What was the (estimated) number of samples that were to be gathered	14
What was the sampling surface area in square feet	1454

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	1200
What was the total volume (cubic yards) remediated	240
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)	All confirmation and sidewall samples meet conditional requirements.

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: Isaac Castro Email: icastro@marathonoil.com Date: 03/15/2024
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QUESTIONS, Page 7

Action 323569

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 323569
	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 323569

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
	372098
	Action Number:
	323569
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 #NAPP2329764387 SOUTHERN COMFORT 561012 TB, thank you. This Remediation Closure Report is approved.	5/2/2024