



SITE INFORMATION

Deferment Report
Merchant Livestock 19 State 1 (09.28.2022)
Incident ID: nAPP2227253344
Lea County, New Mexico
Unit D Sec 19 T22S R33E
32.38262°, -103.61828°

Crude Oil & Produced Water Release
Point of Release: Equipment Failure
Release Date: 09/28/2022
Volume Released: 1.5 Barrels of Oil & 17 Barrels of Produced Water
Volume Recovered: 0 Barrel of Oil & 17 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Cimarex Energy Co. of Colorado
600 N. Marienfeld Street
Suite 600
Midland, Texas 79701

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



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January 29, 2023

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Report
Merchant Livestock 19 State 1 (09.28.22)
Cimarex Energy Co. of Colorado
Site Location: Unit D, S19, T22S, R33E
(Lat 32.38262°, Long -103.61828°)
Lea County, New Mexico

To whom it may concern:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for Merchant Livestock 19 State 1 (09.28.22). The site is located at 32.38262°, -103.61828° within Unit D, S19, T22S, R33E, in Lea 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 leak was discovered on September 28, 2022, caused by equipment failure of a water dump. It resulted in approximately one point five (1.5) barrels of oil released and seventeen (17) barrels of produced water released, zero (0) barrels of oil recovered, and seventeen (17) barrels of produced water recovered. The impacted area is located on the pad and is shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low 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 1.71 miles northwest of the site in S14, T22S, R32E, and was drilled in 2001. The well has a reported depth to groundwater of 140' feet below the ground surface (ft bgs). A copy of the groundwater determination bore log is attached in Appendix D.

On January 10, 2023, H&R Enterprises, Inc was onsite to drill a groundwater determination bore at BH-4 to 55' below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 55' below the surface. The coordinates for the groundwater determination bore are 32.382463°, -103.618808°. See Appendix D for the bore location.

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.

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432.813.1992



- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- TPH: 2,500 mg/kg (GRO + DRO + MRO)
- TPH: 1,000 mg/kg (DRO + GRO)
- Chloride: 10,000 mg/kg.

4.0 Remediation Activities

Drilling Activities

On October 10, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts from the release with an air rotary rig. Four (4) boreholes were advanced to depths ranging from the surface to 35' bgs inside the release area to assess the vertical extent. 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. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

On January 10, 2023, Carmona Resources, LLC performed site assessment activities to reevaluate soil impacts at BH-4 from the release with an air rotary rig. One (1) borehole was advanced to a depth from the surface to 25' bgs inside the release area to assess the vertical extent. 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. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

The results of the sampling are summarized in Table 1. See Figure 3 for the sample locations.

Remediation

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on January 15, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of BH-1 through BH-3 was excavated to a depth of 13' below the surface, and BH-4 was excavated to a depth of 5' below the surface to remove all the impacted soils. A total of ten (10) floor confirmation samples were collected (CS-1 through CS-10), and twenty-four (24) sidewall samples (SW-1 through SW-24) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.



The areas of sidewall samples (SW-2, SW-10, SW-11, SW-12, SW-13, SW-14, SW-23, and SW-24) showed high TPH concentrations ranging from 1,833 mg/kg to 13,610 mg/kg. Refer to Table 2 and Figure 4 (Facility Equipment).

All other 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 987 cubic yards of material were excavated and transported offsite for proper disposal.

5.0 Conclusion

Based on the area, safety, and active facility equipment, Cimarex requests to defer the TPH impact from areas under the facility equipment until the facility is removed. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

Conner Moehring
Sr. Project Manager

Ashton Thielke
Sr. Project Manager

FIGURES

CARMONA RESOURCES





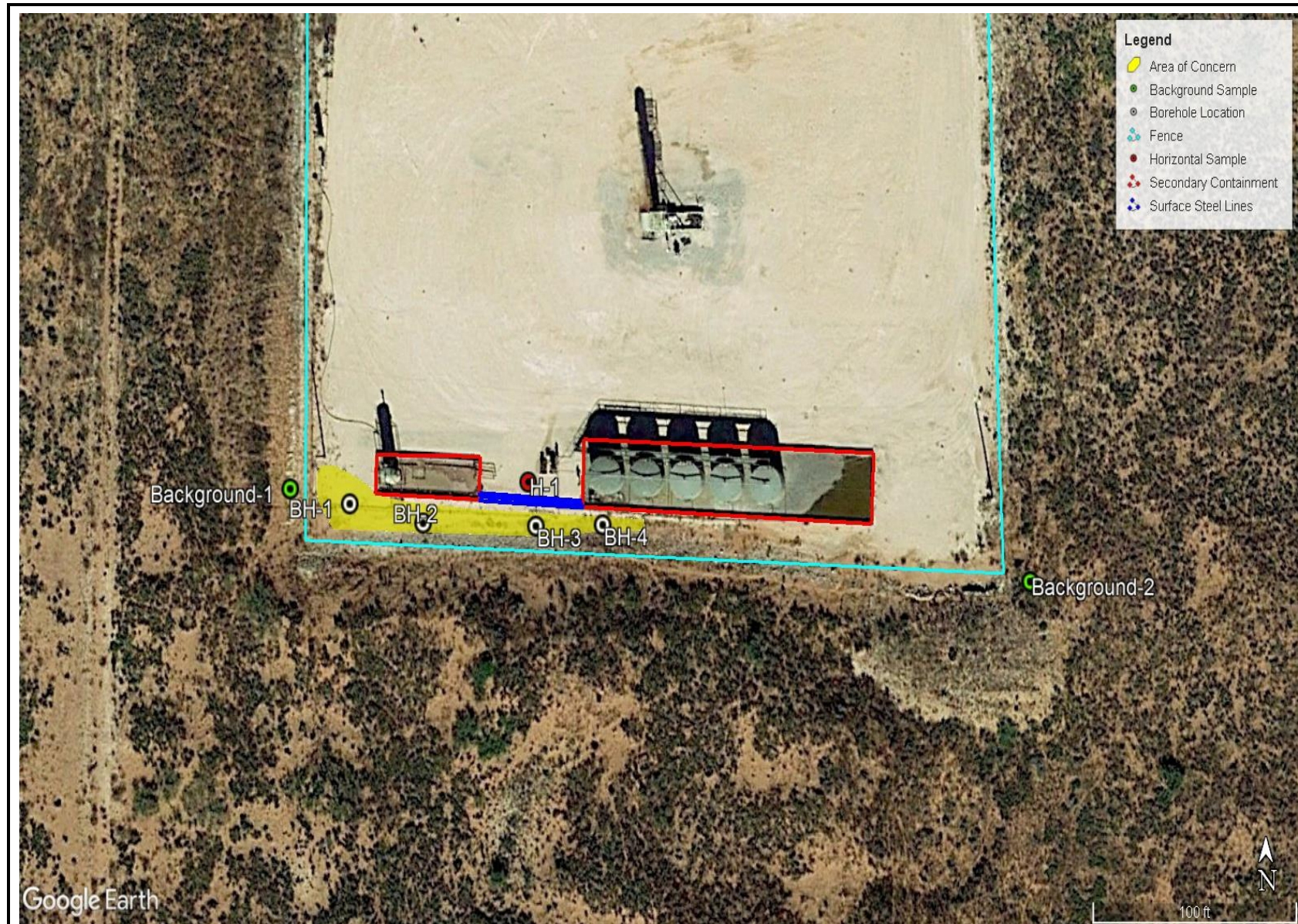
SITE OVERVIEW MAP
CIMAREX ENERGY CO. OF COLORADO
MERCHANT LIVESTOCK 19 STATE 1 (09.28.22)
LEA COUNTY, NEW MEXICO
32.38262°, -103.61828°



FIGURE 1



FIGURE 2



SAMPLE LOCATION MAP
 CIMAREX ENERGY CO. OF COLORADO
 MERCHANT LIVESTOCK 19 STATE 1 (09.28.22)
 LEA COUNTY, NEW MEXICO
 32.38262°, -103.61828°



FIGURE 3



EXCAVATION DEPTH MAP
 CIMAREX ENERGY CO. OF COLORADO
 MERCHANT LIVESTOCK 19 STATE 1 (09.28.22)
 LEA COUNTY, NEW MEXICO
 32.38262°, -103.61828°



FIGURE 4

APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex Energy Co.
Merchant Livestock 19 State Com 1H
Lea 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						
Background-1	10/10/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	15.3
Background-2	10/10/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	16.7
BH-1	10/10/2022	0-2.0	807	1,800	978	3,590	1.49	11.0	3.43	11.4	27.3	221
	"	4.0	<49.9	74.8	<49.9	74.8	<0.00200	0.0332	0.0148	0.0646	0.113	160
	"	6.0	<49.9	<49.9	<49.9	<49.9	<0.00198	0.0128	0.00545	0.0232	0.0415	304
	"	8.0	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	152
	"	10.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	68.6
	"	15.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	48.8
	"	20.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	28.1
BH-2	10/10/2022	0-2.0	430	2,200	1,350	3,980	0.0104	0.397	0.278	7.93	8.62	460
	"	4.0	343	2,310	1,380	4,030	<0.00201	0.150	0.0973	0.626	0.873	128
	"	6.0	78.8	676	471	1,230	<0.00201	0.208	0.141	0.809	1.16	33.4
	"	8.0	106	842	<49.9	948	<0.0401	0.432	0.0866	9.11	9.63	140
	"	10.0	<49.8	303	<49.8	303	<0.00199	0.0321	0.0525	0.431	0.516	50.7
	"	15.0	<49.8	124	<49.8	124	<0.00199	<0.00199	0.00430	0.0197	0.0240	67.7
	"	20.0	<50.0	97.9	67.4	165	<0.00200	0.00543	<0.00200	<0.00401	0.00543	114
	"	25.0	<50.0	74.3	<50.0	74.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	126
	"	30.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	84.7
	"	35.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	107
BH-3	10/10/2022	0-2.0	618	3,370	<250	3,990	<0.0503	1.59	0.861	1.89	4.34	2,230
	"	4.0	731	2,550	<49.8	3,280	<0.0504	1.25	0.775	7.02	9.05	142
	"	6.0	666	2,790	<49.9	3,460	<0.0498	1.19	0.953	6.87	9.01	51.9
	"	8.0	690	2,790	<50.0	3,480	<0.0501	1.47	1.48	6.66	9.61	63.0
	"	10.0	562	2,700	<50.0	3,260	<0.0500	0.305	0.149	0.576	1.03	104
	"	15.0	<49.8	268	<49.8	268	<0.0499	<0.0499	<0.0499	0.193	0.193	69.8
	"	20.0	<50.0	177	109	286	<0.00202	<0.00202	<0.00202	0.0500	0.0500	36.5
	"	25.0	<50.0	87.8	61.9	150	<0.00200	0.00200	<0.00200	0.0995	0.102	22.9
	"	30.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	59.8
BH-4	10/10/2022	0-2.0	372	1,870	<49.8	2,240	<0.00198	0.0256	0.0774	0.300	0.403	395
	"	4.0	<50.0	357	<50.0	357	<0.00199	<0.00199	<0.00199	0.0115	0.0115	60.6
	"	6.0	<49.9	85.6	<49.9	85.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	29.5
	"	8.0	<50.0	56.2	53.2	109	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	32.3
	"	10.0	<50.0	90.7	53.0	144	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	42.9
	"	15.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	82.1
	"	20.0	<50.0	145	74.3	219	<0.00200	<0.00200	<0.00200	0.00949	0.00949	111
BH-4	1/10/2023	0-1	202	1,710	<49.9	1,910	0.251	0.189	0.559	2.60	3.59	246
	"	2.0	289	1,570	<50.0	1,860	0.262	0.136	0.419	1.96	2.78	199
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	46.4
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	37.6
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	45.2
	"	10.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	41.9
	"	15.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	45.0
	"	20.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	45.7
H-1	1/19/2023	0-1	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulatory Criteria^A			1,000 mg/kg		2,500 mg/kg		10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

Removed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(T) Trench Sample

(BH) Borehole Sample

(H) Horizontal Sample

Table 2
Cimarex
Merchant Livestock 19 1 (09.28.22)
Lea 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						
CS-1	1/18/2023	5.0	<10.0	24.0	<10.0	24.0	<0.050	<0.100	<0.050	<0.150	<0.350	32.0
CS-2	1/18/2023	13.0	<10.0	31.4	<10.0	31.4	<0.050	<0.100	<0.050	<0.150	<0.350	32.0
CS-3	1/18/2023	13.0	<10.0	35.0	<10.0	35.0	<0.050	<0.100	<0.050	<0.150	<0.350	48.0
CS-4	1/18/2023	13.0	<10.0	21.1	<10.0	21.1	<0.050	<0.100	<0.050	<0.150	<0.350	32.0
CS-5	1/18/2023	13.0	<10.0	31.5	<10.0	31.5	<0.050	<0.100	<0.050	<0.150	<0.350	32.0
CS-6	1/18/2023	13.0	<10.0	15.7	<10.0	15.7	<0.050	<0.100	<0.050	<0.150	<0.350	32.0
CS-7	1/19/2023	13.0	<10.0	47.1	<10.0	47.1	<0.050	<0.100	<0.050	<0.150	<0.300	96.0
CS-8	1/19/2023	13.0	<10.0	44.3	<10.0	44.3	<0.050	<0.100	<0.050	<0.150	<0.300	64.0
CS-9	1/19/2023	13.0	<10.0	19.4	<10.0	19.4	<0.050	<0.100	<0.050	<0.150	<0.300	32.0
CS-10	1/19/2023	13.0	<10.0	61.3	<10.0	61.3	<0.050	<0.100	<0.050	<0.150	<0.300	32.0
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

Table 2
Cimarex
Merchant Livestock 19 1 (09.28.22)
Lea 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						
SW-1	1/18/2023	5.0	<10.0	16.0	<10.0	16.0	<0.050	<0.100	<0.050	<0.150	<0.350	16.0
SW-2	1/18/2023	5.0	17.3	396	86.2	499.5	<0.050	<0.100	0.098	0.873	0.971	80.0
SW-3	1/18/2023	5.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.350	80.0
SW-4	1/18/2023	8.0	<10.0	19.7	<10.0	19.7	<0.050	<0.100	<0.050	<0.150	<0.350	48.0
SW-5	1/18/2023	13.0	<10.0	21.3	<10.0	21.3	<0.050	<0.100	<0.050	<0.150	<0.350	48.0
SW-6	1/18/2023	13.0	<10.0	433	84.9	518	<0.050	<0.100	<0.050	<0.150	<0.350	64.0
	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	16.0
SW-7	1/18/2023	13.0	<10.0	202	36.8	239	<0.050	<0.100	<0.050	<0.150	<0.350	128
	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	32
SW-8	1/18/2023	13.0	<10.0	12.8	<10.0	12.8	<0.050	<0.100	<0.050	<0.150	<0.350	48.0
SW-9	1/18/2023	13.0	10.1	964	166	1,140	<0.050	<0.100	<0.050	<0.150	<0.350	64.0
	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	32.0
SW-10	1/18/2023	13.0	583	4,780	796	6,159	<0.200	2.87	4.23	25.5	30.6	160
SW-11	1/18/2023	13.0	859	5,250	780	5	<0.200	7.3	854	41.7	57.5	128
SW-12	1/18/2023	13.0	2,270	9,080	1,400	12,750	<1.00	24.5	20.3	96.7	141	160
SW-13	1/18/2023	13.0	614	6,150	1,100	7,864	<0.500	4.73	5.64	29.1	39.5	368
SW-14	1/18/2023	13.0	439	4,510	837	5,789	<0.500	5.39	5.81	29.3	40.5	400
SW-15	1/19/2023	13.0	<10.0	15.1	<10.0	15.1	<0.050	<0.100	<0.050	<0.150	<0.300	48.0
SW-16	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	48.0
SW-17	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	16.0
SW-18	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	16.0
SW-19	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	48.0
SW-20	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	48.0
SW-21	1/19/2023	13.0	<10.0	14.4	<10.0	14.4	<0.050	<0.100	<0.050	<0.150	<0.300	48.0
SW-22	1/19/2023	13.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.100	<0.050	<0.150	<0.300	48.0
SW-23	1/19/2023	13.0	150	1,450	233	1,833	<0.050	0.738	1.34	7.26	9.34	64.0
SW-24	1/19/2023	13.0	2,170	9,810	1,630	13,610	<0.050	15.2	18.3	93.9	127	144.0
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(SW) Sidewall

Removed

Deferred

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy

Photograph No. 1

Facility: Merchant Livestock 19 State 1
(09.28.2022)

County: Lea County, New Mexico

Description:

View Southeast, of drillers installing boreholes.



Photograph No. 2

Facility: Merchant Livestock 19 State 1
(09.28.2022)

County: Lea County, New Mexico

Description:

View West, area of confirmation sample (1).



Photograph No. 3

Facility: Merchant Livestock 19 State 1
(09.28.2022)

County: Lea County, New Mexico

Description:

View West, area of confirmation samples (2-6).



PHOTOGRAPHIC LOG

Cimarex Energy

Photograph No. 4

Facility: Merchant Livestock 19 State 1
(09.28.2022)

County: Lea County, New Mexico

Description:

View East, area of confirmation samples (7-10).



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	nAPP2227253344
District RP	
Facility ID	fAPP2202672601
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2227253344
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.38262 _____ Longitude -103.61828 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Merchant Livestock 19 State 1	Site Type: Battery
Date Release Discovered: 9/28/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	19	22S	33E	Lea

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) 1.5	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) 17	Volume Recovered (bbls) 17
	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: Equipment Failure

The top diagram on the mechanical water dump failed, allowing the heater treater to bleed down. A total of 18.5 barrels were released, 17 barrels produced water inside the lined containment and 1.5 barrels oil onto the well pad. A vacuum truck will recover the fluid inside the containment and an environmental company is scheduled to remediate the impacted soil. The containment will be washed and a liner inspection scheduled.

Initial Response

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

Released to Imaging: 2/20/2023 3:11:14 PM

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

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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: *Jac. Lj* Date: _____

email: _____ Telephone: _____

OCD OnlyReceived by: Jocelyn Harimon Date: 02/02/2023

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.

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: Jac. Lj Date: _____
email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 02/02/2023

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

Signature: Jennifer Nobui Date: 02/20/2023

Ashton Thielke

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, January 17, 2023 9:18 AM
To: Ashton Thielke
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] nAPP2227253344 - Merchant Livestock 19 State Com 1H (09.28.2022) - Sample Notification

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Ashton,

Thank you for the notification. Please 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.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Sunday, January 15, 2023 10:28 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nAPP2227253344 - Merchant Livestock 19 State Com 1H (09.28.2022) - Sample Notification

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

Good morning,

This new email serves as notification for confirmation sampling on the above mentioned site. Sampling is scheduled to begin as early as January 18, 2022, weather and soil conditions permitting.
Incident ID: nAPP2227253344
Coordinates: 32.38262, -103.61828

Thank you,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.5347 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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APPENDIX D

CARMONA RESOURCES



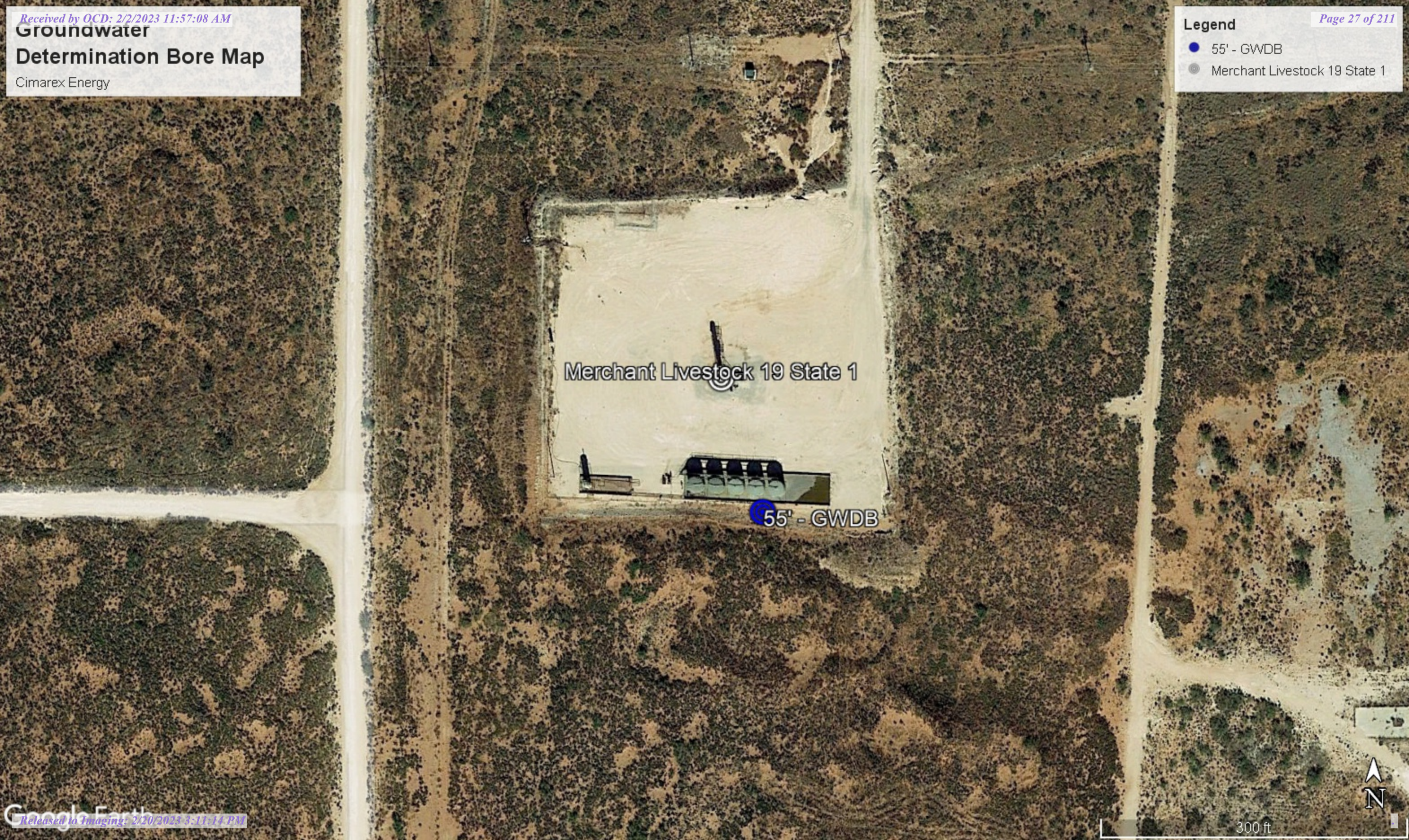
Groundwater

Determination Bore Map

Cimarex Energy

Legend

- 55' - GWDB
- Merchant Livestock 19 State 1



Merchant Livestock 19 State 1

55' - GWDB



300 ft

Nearest water wells

Cimarex Energy

Legend

0.50 Mile Radius

1.71 Miles

1.76 Miles

NMSEO Water Well

Merchant Livestock 19 State 1

340' - Drilled 2001

360' - Drilled 1963

Merchant Livestock 19 State 1

N

3000 ft

LOW KARST

Cimarex Energy

Legend

- Low
- Merchant Livestock 19 State 1

21

30

32

Merchant Livestock 19 State 1

797





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	Depth Well	Depth Water	Water Column
CP 00592 POD1	CP	ED		3	2	13	22S	33E		638834	3585015*	427		
CP 01881 POD1	CP	LE		2	4	2	06	22S	33E	631319	3588157			
CP 01899 POD1	CP	LE		4	4	4	08	22S	33E	632811	3585622			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

PLSS Search:

Township: 22S

Range: 33E

*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.

1/27/23 9:30 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)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02821	2	2	3	14	22S	32E	627303	3584563* 
Driller License: 1348		Driller Company:				TAYLOR WATER WELL SERVICE			
Driller Name:									
Drill Start Date: 06/12/2001		Drill Finish Date:				06/23/2001		Plug Date:	
Log File Date: 10/04/2001		PCW Rcv Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield: 2 GPM	
Casing Size: 5.00		Depth Well:				540 feet		Depth Water: 340 feet	
Water Bearing Stratifications:				Top	Bottom	Description			
				410	540	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				410	430				
				440	540				

*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.

1/27/23 9:43 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 02096	2	3	14	22S	32E	627204	3584464*	

Driller License:

Driller Company:

Driller Name: JOHN H. TRIGG CO.

Drill Start Date:

Drill Finish Date: 12/31/1963

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 25 GPM

Casing Size: 7.00

Depth Well: 435 feet

Depth Water: 360 feet

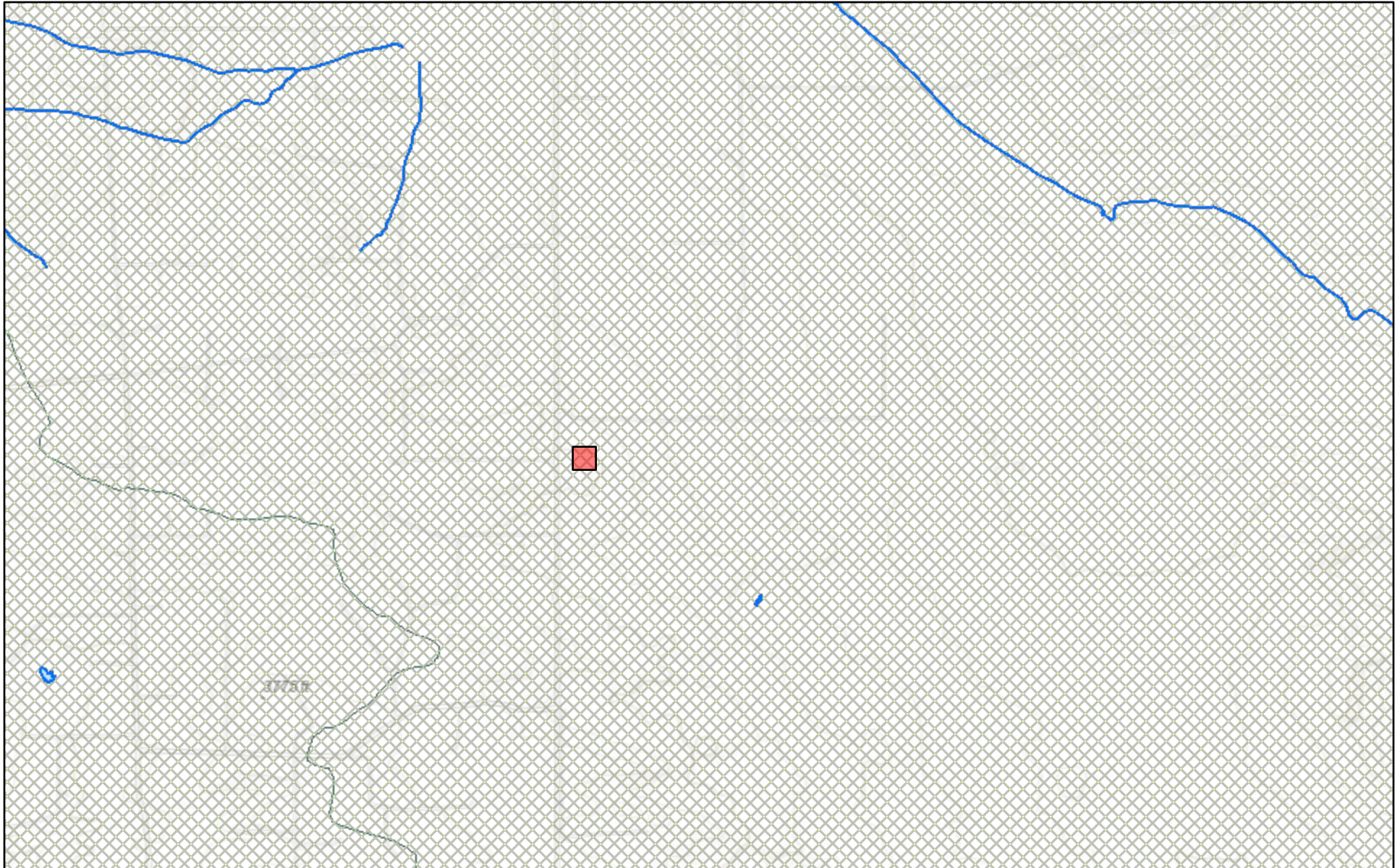
*UTM location was derived from PLSS - see Help

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.

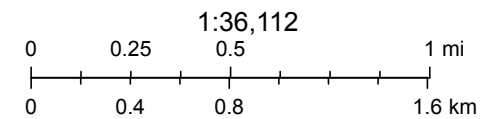
1/27/23 9:42 AM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



January 27, 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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APPENDIX E

CARMONA RESOURCES





Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-20137-1

Laboratory Sample Delivery Group: Lea Co.,
Client Project/Site: Merchant Livestock 19 State Com 1H

For:

Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Ashton Thielke

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

10/11/2022 3:37:57 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Laboratory Job ID: 880-20137-1
SDG: Lea Co.,

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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
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
SQL	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: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Job ID: 880-20137-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-20137-1
-----------	------------------------------

Receipt

The samples were received on 10/10/2022 12:00 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 3.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: Background-1 (0-0.5') (880-20137-1), Background-2 (0-0.5') (880-20137-2), BH-1 (8') (880-20137-3), BH-1 (10') (880-20137-4), BH-2 (20') (880-20137-5), BH-2 (25') (880-20137-6), BH-3 (20') (880-20137-7), BH-3 (25') (880-20137-8), BH-4 (8') (880-20137-9) and BH-4 (10') (880-20137-10).

GC VOA

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 method blank for preparation batch 880-36608 and analytical batch 880-36630 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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 880-36594 and analytical batch 880-36610 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: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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

Lab Sample ID: 880-20137-1

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 02:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/10/22 15:30	10/11/22 02:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/10/22 15:30	10/11/22 02:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/10/22 15:30	10/11/22 02:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/10/22 15:30	10/11/22 02:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/10/22 15:30	10/11/22 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/10/22 15:30	10/11/22 02:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/10/22 15:30	10/11/22 02:39	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			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/11/22 15:33	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		10/10/22 16:51	10/11/22 12:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/10/22 16:51	10/11/22 12:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/10/22 16:51	10/11/22 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	10/10/22 16:51	10/11/22 12:39	1
o-Terphenyl	86		70 - 130	10/10/22 16:51	10/11/22 12:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3	F1	4.95		mg/Kg			10/11/22 03:19	1

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

Lab Sample ID: 880-20137-2

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 03:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/10/22 15:30	10/11/22 03:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/10/22 15:30	10/11/22 03:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/10/22 15:30	10/11/22 03:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/10/22 15:30	10/11/22 03:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/10/22 15:30	10/11/22 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/10/22 15:30	10/11/22 03:06	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/10/22 15:30	10/11/22 03:06	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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

Lab Sample ID: 880-20137-2

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/11/22 15:33	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		10/10/22 16:51	10/11/22 13:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/10/22 16:51	10/11/22 13:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/10/22 16:51	10/11/22 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				10/10/22 16:51	10/11/22 13:00	1
o-Terphenyl	97		70 - 130				10/10/22 16:51	10/11/22 13:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.7		5.05		mg/Kg			10/11/22 03:42	1

Client Sample ID: BH-1 (8')

Lab Sample ID: 880-20137-3

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 03:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 03:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 03:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/10/22 15:30	10/11/22 03:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 03:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/10/22 15:30	10/11/22 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				10/10/22 15:30	10/11/22 03:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/10/22 15:30	10/11/22 03:33	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			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/11/22 15:33	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	<50.1	U	50.1		mg/Kg		10/10/22 16:51	10/11/22 13:21	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/10/22 16:51	10/11/22 13:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Client Sample ID: BH-1 (8')

Lab Sample ID: 880-20137-3

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/10/22 16:51	10/11/22 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				10/10/22 16:51	10/11/22 13:21	1
o-Terphenyl	86		70 - 130				10/10/22 16:51	10/11/22 13:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		4.97		mg/Kg			10/11/22 03:50	1

Client Sample ID: BH-1 (10')

Lab Sample ID: 880-20137-4

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 03:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/10/22 15:30	10/11/22 03:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/10/22 15:30	10/11/22 03:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/10/22 15:30	10/11/22 03:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/10/22 15:30	10/11/22 03:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/10/22 15:30	10/11/22 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				10/10/22 15:30	10/11/22 03:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/10/22 15:30	10/11/22 03:59	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			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/11/22 15:33	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	<49.9	U	49.9		mg/Kg		10/10/22 16:51	10/11/22 13:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/10/22 16:51	10/11/22 13:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/10/22 16:51	10/11/22 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				10/10/22 16:51	10/11/22 13:41	1
o-Terphenyl	82		70 - 130				10/10/22 16:51	10/11/22 13:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.6		4.98		mg/Kg			10/11/22 03:58	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Client Sample ID: BH-2 (20')

Lab Sample ID: 880-20137-5

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 04:25	1
Toluene	0.00543		0.00200		mg/Kg		10/10/22 15:30	10/11/22 04:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 04:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/10/22 15:30	10/11/22 04:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 04:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/10/22 15:30	10/11/22 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/10/22 15:30	10/11/22 04:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/10/22 15:30	10/11/22 04:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00543		0.00401		mg/Kg			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	165		50.0		mg/Kg			10/11/22 15:33	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		10/10/22 16:51	10/11/22 14:02	1
Diesel Range Organics (Over C10-C28)	97.9		50.0		mg/Kg		10/10/22 16:51	10/11/22 14:02	1
Oil Range Organics (Over C28-C36)	67.4		50.0		mg/Kg		10/10/22 16:51	10/11/22 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	10/10/22 16:51	10/11/22 14:02	1
o-Terphenyl	95		70 - 130	10/10/22 16:51	10/11/22 14:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.00		mg/Kg			10/11/22 04:05	1

Client Sample ID: BH-2 (25')

Lab Sample ID: 880-20137-6

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 04:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/10/22 15:30	10/11/22 04:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/10/22 15:30	10/11/22 04:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/10/22 15:30	10/11/22 04:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/10/22 15:30	10/11/22 04:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/10/22 15:30	10/11/22 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/10/22 15:30	10/11/22 04:52	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/10/22 15:30	10/11/22 04:52	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Client Sample ID: BH-2 (25')

Lab Sample ID: 880-20137-6

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.3		50.0		mg/Kg			10/11/22 15:33	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		10/10/22 16:51	10/11/22 14:23	1
Diesel Range Organics (Over C10-C28)	74.3		50.0		mg/Kg		10/10/22 16:51	10/11/22 14:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/10/22 16:51	10/11/22 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				10/10/22 16:51	10/11/22 14:23	1
o-Terphenyl	82		70 - 130				10/10/22 16:51	10/11/22 14:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		5.00		mg/Kg			10/11/22 04:29	1

Client Sample ID: BH-3 (20')

Lab Sample ID: 880-20137-7

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 05:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/10/22 15:30	10/11/22 05:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/10/22 15:30	10/11/22 05:18	1
m-Xylene & p-Xylene	0.0182		0.00403		mg/Kg		10/10/22 15:30	10/11/22 05:18	1
o-Xylene	0.0318		0.00202		mg/Kg		10/10/22 15:30	10/11/22 05:18	1
Xylenes, Total	0.0500		0.00403		mg/Kg		10/10/22 15:30	10/11/22 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				10/10/22 15:30	10/11/22 05:18	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/10/22 15:30	10/11/22 05:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0500		0.00403		mg/Kg			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	286		50.0		mg/Kg			10/11/22 15:33	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		10/10/22 16:51	10/11/22 14:45	1
Diesel Range Organics (Over C10-C28)	177		50.0		mg/Kg		10/10/22 16:51	10/11/22 14:45	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Client Sample ID: BH-3 (20')

Lab Sample ID: 880-20137-7

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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)	109		50.0		mg/Kg		10/10/22 16:51	10/11/22 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				10/10/22 16:51	10/11/22 14:45	1
o-Terphenyl	88		70 - 130				10/10/22 16:51	10/11/22 14:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		4.99		mg/Kg			10/11/22 04:36	1

Client Sample ID: BH-3 (25')

Lab Sample ID: 880-20137-8

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 05:45	1
Toluene	0.00200		0.00200		mg/Kg		10/10/22 15:30	10/11/22 05:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 05:45	1
m-Xylene & p-Xylene	0.0252		0.00399		mg/Kg		10/10/22 15:30	10/11/22 05:45	1
o-Xylene	0.0743		0.00200		mg/Kg		10/10/22 15:30	10/11/22 05:45	1
Xylenes, Total	0.0995		0.00399		mg/Kg		10/10/22 15:30	10/11/22 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				10/10/22 15:30	10/11/22 05:45	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/10/22 15:30	10/11/22 05:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.102		0.00399		mg/Kg			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	150		50.0		mg/Kg			10/11/22 15:33	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		10/10/22 16:51	10/11/22 15:06	1
Diesel Range Organics (Over C10-C28)	87.8		50.0		mg/Kg		10/10/22 16:51	10/11/22 15:06	1
Oil Range Organics (Over C28-C36)	61.9		50.0		mg/Kg		10/10/22 16:51	10/11/22 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				10/10/22 16:51	10/11/22 15:06	1
o-Terphenyl	89		70 - 130				10/10/22 16:51	10/11/22 15:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		5.02		mg/Kg			10/11/22 04:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Client Sample ID: BH-4 (8')

Lab Sample ID: 880-20137-9

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 06:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/10/22 15:30	10/11/22 06:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/10/22 15:30	10/11/22 06:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/10/22 15:30	10/11/22 06:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/10/22 15:30	10/11/22 06:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/10/22 15:30	10/11/22 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/10/22 15:30	10/11/22 06:11	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/10/22 15:30	10/11/22 06:11	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			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	109		50.0		mg/Kg			10/11/22 15:33	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		10/10/22 16:51	10/11/22 15:27	1
Diesel Range Organics (Over C10-C28)	56.2		50.0		mg/Kg		10/10/22 16:51	10/11/22 15:27	1
Oil Range Organics (Over C28-C36)	53.2		50.0		mg/Kg		10/10/22 16:51	10/11/22 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	10/10/22 16:51	10/11/22 15:27	1
o-Terphenyl	80		70 - 130	10/10/22 16:51	10/11/22 15:27	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3		5.02		mg/Kg			10/11/22 04:52	1

Client Sample ID: BH-4 (10')

Lab Sample ID: 880-20137-10

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 06:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/10/22 15:30	10/11/22 06:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/10/22 15:30	10/11/22 06:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/10/22 15:30	10/11/22 06:38	1
o-Xylene	0.00325		0.00201		mg/Kg		10/10/22 15:30	10/11/22 06:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/10/22 15:30	10/11/22 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	10/10/22 15:30	10/11/22 06:38	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/10/22 15:30	10/11/22 06:38	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Client Sample ID: BH-4 (10')

Lab Sample ID: 880-20137-10

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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			10/11/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	144		50.0		mg/Kg			10/11/22 15:33	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		10/10/22 16:51	10/11/22 16:09	1
Diesel Range Organics (Over C10-C28)	90.7		50.0		mg/Kg		10/10/22 16:51	10/11/22 16:09	1
Oil Range Organics (Over C28-C36)	53.0		50.0		mg/Kg		10/10/22 16:51	10/11/22 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				10/10/22 16:51	10/11/22 16:09	1
o-Terphenyl	83		70 - 130				10/10/22 16:51	10/11/22 16:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9		5.00		mg/Kg			10/11/22 04:59	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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)
880-20137-1	Background-1 (0-0.5')	96	95
880-20137-1 MS	Background-1 (0-0.5')	99	101
880-20137-1 MSD	Background-1 (0-0.5')	101	99
880-20137-2	Background-2 (0-0.5')	108	100
880-20137-3	BH-1 (8')	102	103
880-20137-4	BH-1 (10')	105	101
880-20137-5	BH-2 (20')	108	96
880-20137-6	BH-2 (25')	112	99
880-20137-7	BH-3 (20')	107	106
880-20137-8	BH-3 (25')	110	106
880-20137-9	BH-4 (8')	99	101
880-20137-10	BH-4 (10')	93	91
LCS 880-36596/1-A	Lab Control Sample	102	96
LCSD 880-36596/2-A	Lab Control Sample Dup	107	102
MB 880-36500/8	Method Blank	68 S1-	93
MB 880-36596/5-A	Method Blank	43877 S1+	60354 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)
880-20137-1	Background-1 (0-0.5')	80	86
880-20137-2	Background-2 (0-0.5')	85	97
880-20137-3	BH-1 (8')	79	86
880-20137-4	BH-1 (10')	74	82
880-20137-5	BH-2 (20')	85	95
880-20137-6	BH-2 (25')	76	82
880-20137-7	BH-3 (20')	84	88
880-20137-8	BH-3 (25')	84	89
880-20137-9	BH-4 (8')	74	80
880-20137-10	BH-4 (10')	78	83
890-3173-A-49-C MS	Matrix Spike	87	84
890-3173-A-49-D MSD	Matrix Spike Duplicate	86	81
LCS 880-36608/2-A	Lab Control Sample	117	127
LCSD 880-36608/3-A	Lab Control Sample Dup	98	109
MB 880-36608/1-A	Method Blank	111	123
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36500/8

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			10/10/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg			10/10/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			10/10/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			10/10/22 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			10/10/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			10/10/22 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130		10/10/22 11:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130		10/10/22 11:47	1

Lab Sample ID: MB 880-36596/5-A

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/10/22 15:30	10/11/22 02:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	43877	S1+	70 - 130	10/10/22 15:30	10/11/22 02:13	1
1,4-Difluorobenzene (Surr)	60354	S1+	70 - 130	10/10/22 15:30	10/11/22 02:13	1

Lab Sample ID: LCS 880-36596/1-A

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09879		mg/Kg		99	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09404		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-36596/2-A

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09809		mg/Kg		98	70 - 130	1	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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

Lab Sample ID: LCSD 880-36596/2-A

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.09996		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2093		mg/Kg		105	70 - 130	0	35
o-Xylene	0.100	0.09382		mg/Kg		94	70 - 130	0	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-20137-1 MS

Matrix: Solid

Analysis Batch: 36500

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

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.08667		mg/Kg		87	70 - 130		
Toluene	<0.00201	U	0.0998	0.08602		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00201	U	0.0998	0.08841		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1847		mg/Kg		93	70 - 130		
o-Xylene	<0.00201	U	0.0998	0.08295		mg/Kg		83	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

Lab Sample ID: 880-20137-1 MSD

Matrix: Solid

Analysis Batch: 36500

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

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.09314		mg/Kg		94	70 - 130	7	35
Toluene	<0.00201	U	0.0996	0.09820		mg/Kg		99	70 - 130	13	35
Ethylbenzene	<0.00201	U	0.0996	0.09555		mg/Kg		96	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1975		mg/Kg		99	70 - 130	7	35
o-Xylene	<0.00201	U	0.0996	0.08735		mg/Kg		88	70 - 130	5	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								

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

Lab Sample ID: MB 880-36608/1-A

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36608

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		10/10/22 16:51	10/11/22 10:33	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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

Lab Sample ID: MB 880-36608/1-A

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36608

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		10/10/22 16:51	10/11/22 10:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/10/22 16:51	10/11/22 10:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/10/22 16:51	10/11/22 10:33	1
o-Terphenyl	123		70 - 130				10/10/22 16:51	10/11/22 10:33	1

Lab Sample ID: LCS 880-36608/2-A

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1137		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	117		70 - 130				
o-Terphenyl	127		70 - 130				

Lab Sample ID: LCSD 880-36608/3-A

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	946.9		mg/Kg		95	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 890-3173-A-49-C MS

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36608

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	999	1010		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	433		999	1290		mg/Kg		86	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	84		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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

Lab Sample ID: 890-3173-A-49-D MSD

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36608

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	1000	985.5		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	433		1000	1243		mg/Kg		81	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	86		70 - 130								
o-Terphenyl	81		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36594/1-A

Matrix: Solid

Analysis Batch: 36610

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			10/11/22 02:56	1

Lab Sample ID: LCS 880-36594/2-A

Matrix: Solid

Analysis Batch: 36610

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272.3		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-36594/3-A

Matrix: Solid

Analysis Batch: 36610

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	262.4		mg/Kg		105	90 - 110	4	20

Lab Sample ID: 880-20137-1 MS

Matrix: Solid

Analysis Batch: 36610

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.3	F1	248	286.9		mg/Kg		110	90 - 110

Lab Sample ID: 880-20137-1 MSD

Matrix: Solid

Analysis Batch: 36610

Client Sample ID: Background-1 (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	15.3	F1	248	293.1	F1	mg/Kg		112	90 - 110	2	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

GC VOA

Analysis Batch: 36500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20137-1	Background-1 (0-0.5')	Total/NA	Solid	8021B	36596
880-20137-2	Background-2 (0-0.5')	Total/NA	Solid	8021B	36596
880-20137-3	BH-1 (8')	Total/NA	Solid	8021B	36596
880-20137-4	BH-1 (10')	Total/NA	Solid	8021B	36596
880-20137-5	BH-2 (20')	Total/NA	Solid	8021B	36596
880-20137-6	BH-2 (25')	Total/NA	Solid	8021B	36596
880-20137-7	BH-3 (20')	Total/NA	Solid	8021B	36596
880-20137-8	BH-3 (25')	Total/NA	Solid	8021B	36596
880-20137-9	BH-4 (8')	Total/NA	Solid	8021B	36596
880-20137-10	BH-4 (10')	Total/NA	Solid	8021B	36596
MB 880-36500/8	Method Blank	Total/NA	Solid	8021B	
MB 880-36596/5-A	Method Blank	Total/NA	Solid	8021B	36596
LCS 880-36596/1-A	Lab Control Sample	Total/NA	Solid	8021B	36596
LCSD 880-36596/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36596
880-20137-1 MS	Background-1 (0-0.5')	Total/NA	Solid	8021B	36596
880-20137-1 MSD	Background-1 (0-0.5')	Total/NA	Solid	8021B	36596

Prep Batch: 36596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20137-1	Background-1 (0-0.5')	Total/NA	Solid	5035	
880-20137-2	Background-2 (0-0.5')	Total/NA	Solid	5035	
880-20137-3	BH-1 (8')	Total/NA	Solid	5035	
880-20137-4	BH-1 (10')	Total/NA	Solid	5035	
880-20137-5	BH-2 (20')	Total/NA	Solid	5035	
880-20137-6	BH-2 (25')	Total/NA	Solid	5035	
880-20137-7	BH-3 (20')	Total/NA	Solid	5035	
880-20137-8	BH-3 (25')	Total/NA	Solid	5035	
880-20137-9	BH-4 (8')	Total/NA	Solid	5035	
880-20137-10	BH-4 (10')	Total/NA	Solid	5035	
MB 880-36596/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36596/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36596/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20137-1 MS	Background-1 (0-0.5')	Total/NA	Solid	5035	
880-20137-1 MSD	Background-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 36658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20137-1	Background-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20137-2	Background-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-20137-3	BH-1 (8')	Total/NA	Solid	Total BTEX	
880-20137-4	BH-1 (10')	Total/NA	Solid	Total BTEX	
880-20137-5	BH-2 (20')	Total/NA	Solid	Total BTEX	
880-20137-6	BH-2 (25')	Total/NA	Solid	Total BTEX	
880-20137-7	BH-3 (20')	Total/NA	Solid	Total BTEX	
880-20137-8	BH-3 (25')	Total/NA	Solid	Total BTEX	
880-20137-9	BH-4 (8')	Total/NA	Solid	Total BTEX	
880-20137-10	BH-4 (10')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

GC Semi VOA

Prep Batch: 36608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20137-1	Background-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20137-2	Background-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-20137-3	BH-1 (8')	Total/NA	Solid	8015NM Prep	
880-20137-4	BH-1 (10')	Total/NA	Solid	8015NM Prep	
880-20137-5	BH-2 (20')	Total/NA	Solid	8015NM Prep	
880-20137-6	BH-2 (25')	Total/NA	Solid	8015NM Prep	
880-20137-7	BH-3 (20')	Total/NA	Solid	8015NM Prep	
880-20137-8	BH-3 (25')	Total/NA	Solid	8015NM Prep	
880-20137-9	BH-4 (8')	Total/NA	Solid	8015NM Prep	
880-20137-10	BH-4 (10')	Total/NA	Solid	8015NM Prep	
MB 880-36608/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36608/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36608/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3173-A-49-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3173-A-49-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 36630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20137-1	Background-1 (0-0.5')	Total/NA	Solid	8015B NM	36608
880-20137-2	Background-2 (0-0.5')	Total/NA	Solid	8015B NM	36608
880-20137-3	BH-1 (8')	Total/NA	Solid	8015B NM	36608
880-20137-4	BH-1 (10')	Total/NA	Solid	8015B NM	36608
880-20137-5	BH-2 (20')	Total/NA	Solid	8015B NM	36608
880-20137-6	BH-2 (25')	Total/NA	Solid	8015B NM	36608
880-20137-7	BH-3 (20')	Total/NA	Solid	8015B NM	36608
880-20137-8	BH-3 (25')	Total/NA	Solid	8015B NM	36608
880-20137-9	BH-4 (8')	Total/NA	Solid	8015B NM	36608
880-20137-10	BH-4 (10')	Total/NA	Solid	8015B NM	36608
MB 880-36608/1-A	Method Blank	Total/NA	Solid	8015B NM	36608
LCS 880-36608/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36608
LCSD 880-36608/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36608
890-3173-A-49-C MS	Matrix Spike	Total/NA	Solid	8015B NM	36608
890-3173-A-49-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	36608

Analysis Batch: 36697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20137-1	Background-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-20137-2	Background-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-20137-3	BH-1 (8')	Total/NA	Solid	8015 NM	
880-20137-4	BH-1 (10')	Total/NA	Solid	8015 NM	
880-20137-5	BH-2 (20')	Total/NA	Solid	8015 NM	
880-20137-6	BH-2 (25')	Total/NA	Solid	8015 NM	
880-20137-7	BH-3 (20')	Total/NA	Solid	8015 NM	
880-20137-8	BH-3 (25')	Total/NA	Solid	8015 NM	
880-20137-9	BH-4 (8')	Total/NA	Solid	8015 NM	
880-20137-10	BH-4 (10')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

HPLC/IC

Leach Batch: 36594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20137-1	Background-1 (0-0.5')	Soluble	Solid	DI Leach	
880-20137-2	Background-2 (0-0.5')	Soluble	Solid	DI Leach	
880-20137-3	BH-1 (8')	Soluble	Solid	DI Leach	
880-20137-4	BH-1 (10')	Soluble	Solid	DI Leach	
880-20137-5	BH-2 (20')	Soluble	Solid	DI Leach	
880-20137-6	BH-2 (25')	Soluble	Solid	DI Leach	
880-20137-7	BH-3 (20')	Soluble	Solid	DI Leach	
880-20137-8	BH-3 (25')	Soluble	Solid	DI Leach	
880-20137-9	BH-4 (8')	Soluble	Solid	DI Leach	
880-20137-10	BH-4 (10')	Soluble	Solid	DI Leach	
MB 880-36594/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36594/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36594/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20137-1 MS	Background-1 (0-0.5')	Soluble	Solid	DI Leach	
880-20137-1 MSD	Background-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 36610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20137-1	Background-1 (0-0.5')	Soluble	Solid	300.0	36594
880-20137-2	Background-2 (0-0.5')	Soluble	Solid	300.0	36594
880-20137-3	BH-1 (8')	Soluble	Solid	300.0	36594
880-20137-4	BH-1 (10')	Soluble	Solid	300.0	36594
880-20137-5	BH-2 (20')	Soluble	Solid	300.0	36594
880-20137-6	BH-2 (25')	Soluble	Solid	300.0	36594
880-20137-7	BH-3 (20')	Soluble	Solid	300.0	36594
880-20137-8	BH-3 (25')	Soluble	Solid	300.0	36594
880-20137-9	BH-4 (8')	Soluble	Solid	300.0	36594
880-20137-10	BH-4 (10')	Soluble	Solid	300.0	36594
MB 880-36594/1-A	Method Blank	Soluble	Solid	300.0	36594
LCS 880-36594/2-A	Lab Control Sample	Soluble	Solid	300.0	36594
LCSD 880-36594/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36594
880-20137-1 MS	Background-1 (0-0.5')	Soluble	Solid	300.0	36594
880-20137-1 MSD	Background-1 (0-0.5')	Soluble	Solid	300.0	36594

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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

Lab Sample ID: 880-20137-1

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 02:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 12:39	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 03:19	CH	EET MID

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

Lab Sample ID: 880-20137-2

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 03:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 13:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 03:42	CH	EET MID

Client Sample ID: BH-1 (8')

Lab Sample ID: 880-20137-3

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 03:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 13:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 03:50	CH	EET MID

Client Sample ID: BH-1 (10')

Lab Sample ID: 880-20137-4

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 03:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Client Sample ID: BH-1 (10')

Lab Sample ID: 880-20137-4

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 13:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 03:58	CH	EET MID

Client Sample ID: BH-2 (20')

Lab Sample ID: 880-20137-5

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 04:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 14:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 04:05	CH	EET MID

Client Sample ID: BH-2 (25')

Lab Sample ID: 880-20137-6

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 04:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 14:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 04:29	CH	EET MID

Client Sample ID: BH-3 (20')

Lab Sample ID: 880-20137-7

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 05:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 14:45	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Client Sample ID: BH-3 (20')

Lab Sample ID: 880-20137-7

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 04:36	CH	EET MID

Client Sample ID: BH-3 (25')

Lab Sample ID: 880-20137-8

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 15:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 04:44	CH	EET MID

Client Sample ID: BH-4 (8')

Lab Sample ID: 880-20137-9

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 06:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 15:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 04:52	CH	EET MID

Client Sample ID: BH-4 (10')

Lab Sample ID: 880-20137-10

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 06:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36658	10/11/22 09:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			36697	10/11/22 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 16:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36594	10/10/22 14:22	KS	EET MID
Soluble	Analysis	300.0		1			36610	10/11/22 04:59	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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	T104704400-22-24	06-30-23

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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

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	MCAWW	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
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- 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: Merchant Livestock 19 State Com 1H

Job ID: 880-20137-1
SDG: Lea Co.,

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20137-1	Background-1 (0-0.5')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-2	Background-2 (0-0.5')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-3	BH-1 (8')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-4	BH-1 (10')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-5	BH-2 (20')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-6	BH-2 (25')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-7	BH-3 (20')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-8	BH-3 (25')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-9	BH-4 (8')	Solid	10/10/22 00:00	10/10/22 00:00
880-20137-10	BH-4 (10')	Solid	10/10/22 00:00	10/10/22 00:00

Chain of Custody

Work Order No: 20137

Page 1 of 1

Project Manager	Ashton Thielke	Bill to (if different)	Laci Lugo
Company Name	Carmona Resources	Company Name	Cimarex Energy
Address	310 West Wall Ste 415	Address	600 N Mainfield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79701
Phone	432-813-5347	Email	laci.lugo@coterra.com

Work Order Comments	
Program	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Upstream ☐
State of Project	
Reporting Level	Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other ☐

Project Name	Merchant Livestock 19 State Com 1H	Turn Around	☐ Routine ☒ Rush	Pres. Code		ANALYSIS REQUEST				Preservative Codes					
Project Number	1143	Due Date	24 Hours												
Project Location	Lea Co, NM	TAT starts the day received by the lab if received by 4:30pm													
Sampler's Name	AT														
PO #															
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐										
Received Intact:	Yes ☒ No ☐	Thermometer ID:	20												
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor	3.2												
Sample Custody Seals	Yes ☒ No ☐	Temperature Reading	3.4												
Total Containers		Corrected Temperature													

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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880-20137 Chain of Custody

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		10/10/22 1509			

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-20137-1

SDG Number: Lea Co.,

Login Number: 20137

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 America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-20138-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Merchant Livestock 19 State Com 1H

For:

Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Ashton Thielke

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

10/13/2022 3:08:36 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Laboratory Job ID: 880-20138-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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
S1-	Surrogate recovery exceeds control limits, low 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: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Job ID: 880-20138-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-20138-1****Receipt**

The samples were received on 10/10/2022 12:00 AM and 10/10/2022 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 3.4°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-36596 and analytical batch 880-36500 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-2 (0-2') (880-20138-6), BH-2 (4') (880-20138-7), BH-2 (6') (880-20138-8), BH-2 (8') (880-20138-9) and BH-2 (10') (880-20138-10). 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: (MB 880-36678/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-2 (0-2') (880-20138-6), BH-2 (4') (880-20138-7), BH-2 (6') (880-20138-8) and BH-2 (8') (880-20138-9). 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 and precision for preparation batch 880-36699 and analytical batch 880-36717 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-2 (35') (880-20138-13), BH-3 (30') (880-20138-21) and BH-3 (35') (880-20138-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-36766 and analytical batch 880-36730 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-2 (0-2') (880-20138-6). 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 880-36705 and analytical batch 880-36635 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-20138-A-4-E MS) and (880-20138-A-4-F MSD). 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: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-20138-1

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.49		0.397		mg/Kg		10/11/22 16:29	10/12/22 15:02	200
Toluene	11.0		0.397		mg/Kg		10/11/22 16:29	10/12/22 15:02	200
Ethylbenzene	3.43		0.397		mg/Kg		10/11/22 16:29	10/12/22 15:02	200
m-Xylene & p-Xylene	8.27		0.794		mg/Kg		10/11/22 16:29	10/12/22 15:02	200
o-Xylene	3.11		0.397		mg/Kg		10/11/22 16:29	10/12/22 15:02	200
Xylenes, Total	11.4		0.794		mg/Kg		10/11/22 16:29	10/12/22 15:02	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	10/11/22 16:29	10/12/22 15:02	200
1,4-Difluorobenzene (Surr)	84		70 - 130	10/11/22 16:29	10/12/22 15:02	200

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	27.3		0.794		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3590		50.1		mg/Kg			10/12/22 09:35	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	807		50.1		mg/Kg		10/10/22 16:51	10/11/22 18:14	1
Diesel Range Organics (Over C10-C28)	1800		50.1		mg/Kg		10/10/22 16:51	10/11/22 18:14	1
Oil Range Organics (Over C28-C36)	978		50.1		mg/Kg		10/10/22 16:51	10/11/22 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	10/10/22 16:51	10/11/22 18:14	1
o-Terphenyl	82		70 - 130	10/10/22 16:51	10/11/22 18:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		4.95		mg/Kg			10/11/22 12:36	1

Client Sample ID: BH-1 (4')

Lab Sample ID: 880-20138-2

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/11/22 13:04	10/11/22 16:46	1
Toluene	0.0332		0.00200		mg/Kg		10/10/22 15:30	10/11/22 08:25	1
Ethylbenzene	0.0148		0.00200		mg/Kg		10/10/22 15:30	10/11/22 08:25	1
m-Xylene & p-Xylene	0.0462		0.00399		mg/Kg		10/10/22 15:30	10/11/22 08:25	1
o-Xylene	0.0184		0.00200		mg/Kg		10/10/22 15:30	10/11/22 08:25	1
Xylenes, Total	0.0646		0.00399		mg/Kg		10/10/22 15:30	10/11/22 08:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/10/22 15:30	10/11/22 08:25	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/10/22 15:30	10/11/22 08:25	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (4')

Lab Sample ID: 880-20138-2

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.113		0.00399		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.8		49.9		mg/Kg			10/12/22 09:35	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		10/10/22 16:51	10/11/22 17:32	1
Diesel Range Organics (Over C10-C28)	74.8		49.9		mg/Kg		10/10/22 16:51	10/11/22 17:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/10/22 16:51	10/11/22 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				10/10/22 16:51	10/11/22 17:32	1
o-Terphenyl	97		70 - 130				10/10/22 16:51	10/11/22 17:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.05		mg/Kg			10/11/22 13:00	1

Client Sample ID: BH-1 (6')

Lab Sample ID: 880-20138-3

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 08:51	1
Toluene	0.0128		0.00198		mg/Kg		10/10/22 15:30	10/11/22 08:51	1
Ethylbenzene	0.00545		0.00198		mg/Kg		10/10/22 15:30	10/11/22 08:51	1
m-Xylene & p-Xylene	0.0128		0.00396		mg/Kg		10/10/22 15:30	10/11/22 08:51	1
o-Xylene	0.0104		0.00198		mg/Kg		10/10/22 15:30	10/11/22 08:51	1
Xylenes, Total	0.0232		0.00396		mg/Kg		10/10/22 15:30	10/11/22 08:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				10/10/22 15:30	10/11/22 08:51	1
1,4-Difluorobenzene (Surr)	97		70 - 130				10/10/22 15:30	10/11/22 08:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0415		0.00396		mg/Kg			10/11/22 13:43	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			10/12/22 09:35	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		10/10/22 16:51	10/11/22 17:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/10/22 16:51	10/11/22 17:53	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (6')

Lab Sample ID: 880-20138-3

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 16:51	10/11/22 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				10/10/22 16:51	10/11/22 17:53	1
o-Terphenyl	81		70 - 130				10/10/22 16:51	10/11/22 17:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		4.97		mg/Kg			10/11/22 13:07	1

Client Sample ID: BH-1 (15')

Lab Sample ID: 880-20138-4

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/12/22 10:00	10/12/22 17:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/12/22 17:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/12/22 17:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/12/22 10:00	10/12/22 17:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/12/22 17:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/12/22 10:00	10/12/22 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				10/12/22 10:00	10/12/22 17:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130				10/12/22 10:00	10/12/22 17:13	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			10/11/22 13:43	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			10/12/22 09:35	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		10/12/22 08:44	10/12/22 12:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/12/22 08:44	10/12/22 12:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/12/22 08:44	10/12/22 12:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				10/12/22 08:44	10/12/22 12:06	1
o-Terphenyl	87		70 - 130				10/12/22 08:44	10/12/22 12:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.8		5.02		mg/Kg			10/12/22 14:28	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (20')

Lab Sample ID: 880-20138-5

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/12/22 10:00	10/12/22 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/12/22 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/12/22 17:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/12/22 10:00	10/12/22 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/12/22 17:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/12/22 10:00	10/12/22 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/12/22 10:00	10/12/22 17:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/12/22 10:00	10/12/22 17:34	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			10/11/22 13:43	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			10/12/22 09:35	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		10/12/22 08:44	10/12/22 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/12/22 08:44	10/12/22 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/12/22 08:44	10/12/22 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	10/12/22 08:44	10/12/22 14:32	1
o-Terphenyl	91		70 - 130	10/12/22 08:44	10/12/22 14:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		5.04		mg/Kg			10/12/22 14:33	1

Client Sample ID: BH-2 (0-2')

Lab Sample ID: 880-20138-6

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0104		0.00199		mg/Kg		10/11/22 13:04	10/11/22 17:38	1
Toluene	0.397		0.00199		mg/Kg		10/11/22 13:04	10/11/22 17:38	1
Ethylbenzene	0.278		0.00200		mg/Kg		10/10/22 15:30	10/11/22 09:18	1
m-Xylene & p-Xylene	4.91		0.202		mg/Kg		10/12/22 15:17	10/13/22 15:37	50
o-Xylene	3.02		0.101		mg/Kg		10/12/22 15:17	10/13/22 15:37	50
Xylenes, Total	7.93		0.202		mg/Kg		10/12/22 15:17	10/13/22 15:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	429	S1+	70 - 130	10/10/22 15:30	10/11/22 09:18	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/10/22 15:30	10/11/22 09:18	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (0-2')

Lab Sample ID: 880-20138-6

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	8.62		0.202		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3980		50.0		mg/Kg			10/12/22 09:35	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	430		50.0		mg/Kg		10/10/22 16:51	10/11/22 18:34	1
Diesel Range Organics (Over C10-C28)	2200		50.0		mg/Kg		10/10/22 16:51	10/11/22 18:34	1
Oil Range Organics (Over C28-C36)	1350		50.0		mg/Kg		10/10/22 16:51	10/11/22 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				10/10/22 16:51	10/11/22 18:34	1
o-Terphenyl	85		70 - 130				10/10/22 16:51	10/11/22 18:34	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460		4.98		mg/Kg			10/11/22 13:15	1

Client Sample ID: BH-2 (4')

Lab Sample ID: 880-20138-7

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/11/22 13:04	10/11/22 19:22	1
Toluene	0.150		0.00201		mg/Kg		10/11/22 13:04	10/11/22 19:22	1
Ethylbenzene	0.0973		0.00201		mg/Kg		10/11/22 13:04	10/11/22 19:22	1
m-Xylene & p-Xylene	0.421		0.00402		mg/Kg		10/11/22 13:04	10/11/22 19:22	1
o-Xylene	0.205		0.00201		mg/Kg		10/11/22 13:04	10/11/22 19:22	1
Xylenes, Total	0.626		0.00402		mg/Kg		10/11/22 13:04	10/11/22 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130				10/10/22 15:30	10/11/22 09:44	1
1,4-Difluorobenzene (Surr)	112		70 - 130				10/10/22 15:30	10/11/22 09:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.873		0.00402		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4030		50.0		mg/Kg			10/12/22 09:35	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	343		50.0		mg/Kg		10/10/22 16:51	10/11/22 18:55	1
Diesel Range Organics (Over C10-C28)	2310		50.0		mg/Kg		10/10/22 16:51	10/11/22 18:55	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (4')

Lab Sample ID: 880-20138-7

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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)	1380		50.0		mg/Kg		10/10/22 16:51	10/11/22 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				10/10/22 16:51	10/11/22 18:55	1
o-Terphenyl	84		70 - 130				10/10/22 16:51	10/11/22 18:55	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		5.00		mg/Kg			10/11/22 13:23	1

Client Sample ID: BH-2 (6')

Lab Sample ID: 880-20138-8

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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		10/10/22 15:30	10/11/22 10:10	1
Toluene	0.208		0.00201		mg/Kg		10/10/22 15:30	10/11/22 10:10	1
Ethylbenzene	0.141		0.00201		mg/Kg		10/10/22 15:30	10/11/22 10:10	1
m-Xylene & p-Xylene	0.437		0.00402		mg/Kg		10/10/22 15:30	10/11/22 10:10	1
o-Xylene	0.372		0.00201		mg/Kg		10/10/22 15:30	10/11/22 10:10	1
Xylenes, Total	0.809		0.00402		mg/Kg		10/10/22 15:30	10/11/22 10:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				10/10/22 15:30	10/11/22 10:10	1
1,4-Difluorobenzene (Surr)	122		70 - 130				10/10/22 15:30	10/11/22 10:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.16		0.00402		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1230		50.0		mg/Kg			10/12/22 09:35	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	78.8		50.0		mg/Kg		10/10/22 16:51	10/11/22 19:16	1
Diesel Range Organics (Over C10-C28)	676		50.0		mg/Kg		10/10/22 16:51	10/11/22 19:16	1
Oil Range Organics (Over C28-C36)	471		50.0		mg/Kg		10/10/22 16:51	10/11/22 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				10/10/22 16:51	10/11/22 19:16	1
o-Terphenyl	85		70 - 130				10/10/22 16:51	10/11/22 19:16	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.4		5.00		mg/Kg			10/11/22 13:46	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (8')

Lab Sample ID: 880-20138-9

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401		mg/Kg		10/11/22 13:04	10/11/22 19:48	20
Toluene	0.432		0.0401		mg/Kg		10/11/22 13:04	10/11/22 19:48	20
Ethylbenzene	0.0866		0.0401		mg/Kg		10/11/22 13:04	10/11/22 19:48	20
m-Xylene & p-Xylene	1.94		0.0802		mg/Kg		10/11/22 13:04	10/11/22 19:48	20
o-Xylene	7.17		0.0401		mg/Kg		10/11/22 13:04	10/11/22 19:48	20
Xylenes, Total	9.11		0.0802		mg/Kg		10/11/22 13:04	10/11/22 19:48	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	10/11/22 13:04	10/11/22 19:48	20
1,4-Difluorobenzene (Surr)	111		70 - 130	10/11/22 13:04	10/11/22 19:48	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	9.63		0.0802		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	948		49.9		mg/Kg			10/12/22 09:35	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	106		49.9		mg/Kg		10/11/22 17:37	10/11/22 23:36	1
Diesel Range Organics (Over C10-C28)	842		49.9		mg/Kg		10/11/22 17:37	10/11/22 23:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/22 17:37	10/11/22 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	10/11/22 17:37	10/11/22 23:36	1
o-Terphenyl	80		70 - 130	10/11/22 17:37	10/11/22 23:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		4.99		mg/Kg			10/11/22 13:54	1

Client Sample ID: BH-2 (10')

Lab Sample ID: 880-20138-10

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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		10/10/22 15:30	10/11/22 11:02	1
Toluene	0.0321		0.00199		mg/Kg		10/10/22 15:30	10/11/22 11:02	1
Ethylbenzene	0.0525		0.00199		mg/Kg		10/10/22 15:30	10/11/22 11:02	1
m-Xylene & p-Xylene	0.0951		0.00398		mg/Kg		10/10/22 15:30	10/11/22 11:02	1
o-Xylene	0.336		0.00199		mg/Kg		10/10/22 15:30	10/11/22 11:02	1
Xylenes, Total	0.431		0.00398		mg/Kg		10/10/22 15:30	10/11/22 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	10/10/22 15:30	10/11/22 11:02	1
1,4-Difluorobenzene (Surr)	120		70 - 130	10/10/22 15:30	10/11/22 11:02	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (10')

Lab Sample ID: 880-20138-10

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.516		0.00398		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	303		49.8		mg/Kg			10/12/22 09:35	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		10/11/22 17:37	10/11/22 23:58	1
Diesel Range Organics (Over C10-C28)	303		49.8		mg/Kg		10/11/22 17:37	10/11/22 23:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/22 17:37	10/11/22 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				10/11/22 17:37	10/11/22 23:58	1
o-Terphenyl	77		70 - 130				10/11/22 17:37	10/11/22 23:58	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.7		5.02		mg/Kg			10/11/22 14:02	1

Client Sample ID: BH-2 (15')

Lab Sample ID: 880-20138-11

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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		10/10/22 16:36	10/11/22 17:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/10/22 16:36	10/11/22 17:00	1
Ethylbenzene	0.00430		0.00199		mg/Kg		10/10/22 16:36	10/11/22 17:00	1
m-Xylene & p-Xylene	0.0111		0.00398		mg/Kg		10/10/22 16:36	10/11/22 17:00	1
o-Xylene	0.00859		0.00199		mg/Kg		10/10/22 16:36	10/11/22 17:00	1
Xylenes, Total	0.0197		0.00398		mg/Kg		10/10/22 16:36	10/11/22 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				10/10/22 16:36	10/11/22 17:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130				10/10/22 16:36	10/11/22 17:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0240		0.00398		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	124		49.8		mg/Kg			10/12/22 09:35	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		10/11/22 17:37	10/11/22 22:31	1
Diesel Range Organics (Over C10-C28)	124		49.8		mg/Kg		10/11/22 17:37	10/11/22 22:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (15')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/22 17:37	10/11/22 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				10/11/22 17:37	10/11/22 22:31	1
o-Terphenyl	79		70 - 130				10/11/22 17:37	10/11/22 22:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.7		5.02		mg/Kg			10/11/22 14:09	1

Client Sample ID: BH-2 (30')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-12

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		10/13/22 08:00	10/13/22 12:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/13/22 08:00	10/13/22 12:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/13/22 08:00	10/13/22 12:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/13/22 08:00	10/13/22 12:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/13/22 08:00	10/13/22 12:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/13/22 08:00	10/13/22 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/13/22 08:00	10/13/22 12:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130				10/13/22 08:00	10/13/22 12:08	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			10/11/22 13:43	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			10/12/22 09:35	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		10/12/22 08:44	10/12/22 14:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/12/22 08:44	10/12/22 14:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/12/22 08:44	10/12/22 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				10/12/22 08:44	10/12/22 14:53	1
o-Terphenyl	88		70 - 130				10/12/22 08:44	10/12/22 14:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.7		4.97		mg/Kg			10/12/22 14:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (35')

Lab Sample ID: 880-20138-13

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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		10/12/22 10:00	10/12/22 18:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/12/22 10:00	10/12/22 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/12/22 10:00	10/12/22 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/12/22 10:00	10/12/22 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/12/22 10:00	10/12/22 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/12/22 10:00	10/12/22 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	42	S1-	70 - 130	10/12/22 10:00	10/12/22 18:15	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	10/12/22 10:00	10/12/22 18:15	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			10/11/22 13:43	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			10/12/22 09:35	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		10/12/22 08:44	10/12/22 15:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/12/22 08:44	10/12/22 15:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/12/22 08:44	10/12/22 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	10/12/22 08:44	10/12/22 15:14	1
o-Terphenyl	88		70 - 130	10/12/22 08:44	10/12/22 15:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.97		mg/Kg			10/12/22 14:53	1

Client Sample ID: BH-3 (0-2')

Lab Sample ID: 880-20138-15

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0503	U	0.0503		mg/Kg		10/10/22 16:36	10/11/22 18:02	25
Toluene	1.59		0.0503		mg/Kg		10/10/22 16:36	10/11/22 18:02	25
Ethylbenzene	0.861		0.0503		mg/Kg		10/10/22 16:36	10/11/22 18:02	25
m-Xylene & p-Xylene	1.62		0.101		mg/Kg		10/10/22 16:36	10/11/22 18:02	25
o-Xylene	0.270		0.0503		mg/Kg		10/10/22 16:36	10/11/22 18:02	25
Xylenes, Total	1.89		0.101		mg/Kg		10/10/22 16:36	10/11/22 18:02	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	10/10/22 16:36	10/11/22 18:02	25
1,4-Difluorobenzene (Surr)	107		70 - 130	10/10/22 16:36	10/11/22 18:02	25

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Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-3 (0-2')

Lab Sample ID: 880-20138-15

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	4.34		0.101		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3990		250		mg/Kg			10/12/22 09:35	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	618		250		mg/Kg		10/11/22 17:37	10/12/22 00:19	5
Diesel Range Organics (Over C10-C28)	3370		250		mg/Kg		10/11/22 17:37	10/12/22 00:19	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		10/11/22 17:37	10/12/22 00:19	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				10/11/22 17:37	10/12/22 00:19	5
o-Terphenyl	74		70 - 130				10/11/22 17:37	10/12/22 00:19	5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2230		25.0		mg/Kg			10/11/22 14:17	5

Client Sample ID: BH-3 (4')

Lab Sample ID: 880-20138-16

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0504	U	0.0504		mg/Kg		10/10/22 16:36	10/11/22 18:22	25
Toluene	1.25		0.0504		mg/Kg		10/10/22 16:36	10/11/22 18:22	25
Ethylbenzene	0.775		0.0504		mg/Kg		10/10/22 16:36	10/11/22 18:22	25
m-Xylene & p-Xylene	4.86		0.101		mg/Kg		10/10/22 16:36	10/11/22 18:22	25
o-Xylene	2.16		0.0504		mg/Kg		10/10/22 16:36	10/11/22 18:22	25
Xylenes, Total	7.02		0.101		mg/Kg		10/10/22 16:36	10/11/22 18:22	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/10/22 16:36	10/11/22 18:22	25
1,4-Difluorobenzene (Surr)	82		70 - 130				10/10/22 16:36	10/11/22 18:22	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	9.05		0.101		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3280		49.8		mg/Kg			10/12/22 09:35	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	731		49.8		mg/Kg		10/11/22 17:37	10/12/22 00:41	1
Diesel Range Organics (Over C10-C28)	2550		49.8		mg/Kg		10/11/22 17:37	10/12/22 00:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-3 (4')

Lab Sample ID: 880-20138-16

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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)	<49.8	U	49.8		mg/Kg		10/11/22 17:37	10/12/22 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				10/11/22 17:37	10/12/22 00:41	1
o-Terphenyl	83		70 - 130				10/11/22 17:37	10/12/22 00:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		5.00		mg/Kg			10/11/22 14:25	1

Client Sample ID: BH-3 (6')

Lab Sample ID: 880-20138-17

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U	0.0498		mg/Kg		10/10/22 16:36	10/11/22 18:43	25
Toluene	1.19		0.0498		mg/Kg		10/10/22 16:36	10/11/22 18:43	25
Ethylbenzene	0.953		0.0498		mg/Kg		10/10/22 16:36	10/11/22 18:43	25
m-Xylene & p-Xylene	4.88		0.0996		mg/Kg		10/10/22 16:36	10/11/22 18:43	25
o-Xylene	1.99		0.0498		mg/Kg		10/10/22 16:36	10/11/22 18:43	25
Xylenes, Total	6.87		0.0996		mg/Kg		10/10/22 16:36	10/11/22 18:43	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/10/22 16:36	10/11/22 18:43	25
1,4-Difluorobenzene (Surr)	82		70 - 130				10/10/22 16:36	10/11/22 18:43	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	9.01		0.0996		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3460		49.9		mg/Kg			10/12/22 09:35	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	666		49.9		mg/Kg		10/11/22 17:37	10/12/22 01:02	1
Diesel Range Organics (Over C10-C28)	2790		49.9		mg/Kg		10/11/22 17:37	10/12/22 01:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/22 17:37	10/12/22 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				10/11/22 17:37	10/12/22 01:02	1
o-Terphenyl	86		70 - 130				10/11/22 17:37	10/12/22 01:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.9		4.97		mg/Kg			10/11/22 14:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-3 (8')

Lab Sample ID: 880-20138-18

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0501	U	0.0501		mg/Kg		10/10/22 16:36	10/11/22 19:03	25
Toluene	1.47		0.0501		mg/Kg		10/10/22 16:36	10/11/22 19:03	25
Ethylbenzene	1.48		0.0501		mg/Kg		10/10/22 16:36	10/11/22 19:03	25
m-Xylene & p-Xylene	4.72		0.100		mg/Kg		10/10/22 16:36	10/11/22 19:03	25
o-Xylene	1.94		0.0501		mg/Kg		10/10/22 16:36	10/11/22 19:03	25
Xylenes, Total	6.66		0.100		mg/Kg		10/10/22 16:36	10/11/22 19:03	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/10/22 16:36	10/11/22 19:03	25
1,4-Difluorobenzene (Surr)	80		70 - 130	10/10/22 16:36	10/11/22 19:03	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	9.61		0.100		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3480		50.0		mg/Kg			10/12/22 09:35	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	690		50.0		mg/Kg		10/11/22 17:37	10/12/22 01:24	1
Diesel Range Organics (Over C10-C28)	2790		50.0		mg/Kg		10/11/22 17:37	10/12/22 01:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/22 17:37	10/12/22 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	10/11/22 17:37	10/12/22 01:24	1
o-Terphenyl	86		70 - 130	10/11/22 17:37	10/12/22 01:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.0		4.97		mg/Kg			10/11/22 14:56	1

Client Sample ID: BH-3 (10')

Lab Sample ID: 880-20138-19

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0500	U	0.0500		mg/Kg		10/11/22 16:29	10/12/22 14:21	25
Toluene	0.305		0.0500		mg/Kg		10/11/22 16:29	10/12/22 14:21	25
Ethylbenzene	0.149		0.0500		mg/Kg		10/11/22 16:29	10/12/22 14:21	25
m-Xylene & p-Xylene	0.370		0.100		mg/Kg		10/11/22 16:29	10/12/22 14:21	25
o-Xylene	0.206		0.0500		mg/Kg		10/11/22 16:29	10/12/22 14:21	25
Xylenes, Total	0.576		0.100		mg/Kg		10/11/22 16:29	10/12/22 14:21	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	10/11/22 16:29	10/12/22 14:21	25
1,4-Difluorobenzene (Surr)	77		70 - 130	10/11/22 16:29	10/12/22 14:21	25

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-3 (10')

Lab Sample ID: 880-20138-19

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.03		0.100		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3260		50.0		mg/Kg			10/12/22 09:35	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	562		50.0		mg/Kg		10/11/22 17:37	10/12/22 01:46	1
Diesel Range Organics (Over C10-C28)	2700		50.0		mg/Kg		10/11/22 17:37	10/12/22 01:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/22 17:37	10/12/22 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				10/11/22 17:37	10/12/22 01:46	1
o-Terphenyl	85		70 - 130				10/11/22 17:37	10/12/22 01:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.04		mg/Kg			10/11/22 15:19	1

Client Sample ID: BH-3 (15')

Lab Sample ID: 880-20138-20

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0499	U	0.0499		mg/Kg		10/11/22 16:29	10/12/22 14:41	25
Toluene	<0.0499	U	0.0499		mg/Kg		10/11/22 16:29	10/12/22 14:41	25
Ethylbenzene	<0.0499	U	0.0499		mg/Kg		10/11/22 16:29	10/12/22 14:41	25
m-Xylene & p-Xylene	0.122		0.0998		mg/Kg		10/11/22 16:29	10/12/22 14:41	25
o-Xylene	0.0713		0.0499		mg/Kg		10/11/22 16:29	10/12/22 14:41	25
Xylenes, Total	0.193		0.0998		mg/Kg		10/11/22 16:29	10/12/22 14:41	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				10/11/22 16:29	10/12/22 14:41	25
1,4-Difluorobenzene (Surr)	86		70 - 130				10/11/22 16:29	10/12/22 14:41	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.193		0.0998		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	268		49.8		mg/Kg			10/12/22 09:35	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		10/11/22 17:37	10/12/22 02:29	1
Diesel Range Organics (Over C10-C28)	268		49.8		mg/Kg		10/11/22 17:37	10/12/22 02:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-3 (15')

Lab Sample ID: 880-20138-20

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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)	<49.8	U	49.8		mg/Kg		10/11/22 17:37	10/12/22 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				10/11/22 17:37	10/12/22 02:29	1
o-Terphenyl	75		70 - 130				10/11/22 17:37	10/12/22 02:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.8		4.98		mg/Kg			10/11/22 15:27	1

Client Sample ID: BH-3 (30')

Lab Sample ID: 880-20138-21

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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		10/12/22 10:00	10/12/22 18:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/12/22 10:00	10/12/22 18:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/12/22 10:00	10/12/22 18:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/12/22 10:00	10/12/22 18:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/12/22 10:00	10/12/22 18:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/12/22 10:00	10/12/22 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				10/12/22 10:00	10/12/22 18:36	1
1,4-Difluorobenzene (Surr)	126		70 - 130				10/12/22 10:00	10/12/22 18:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/11/22 13:43	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			10/12/22 09:35	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		10/12/22 08:44	10/12/22 15:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/12/22 08:44	10/12/22 15:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/12/22 08:44	10/12/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				10/12/22 08:44	10/12/22 15:35	1
o-Terphenyl	91		70 - 130				10/12/22 08:44	10/12/22 15:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.8		4.95		mg/Kg			10/12/22 14:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-3 (35')

Lab Sample ID: 880-20138-22

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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		10/12/22 10:00	10/12/22 18:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/12/22 10:00	10/12/22 18:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/12/22 10:00	10/12/22 18:57	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/12/22 10:00	10/12/22 18:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/12/22 10:00	10/12/22 18:57	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/12/22 10:00	10/12/22 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130	10/12/22 10:00	10/12/22 18:57	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	10/12/22 10:00	10/12/22 18:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/11/22 13:43	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			10/12/22 09:35	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		10/12/22 08:44	10/12/22 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/12/22 08:44	10/12/22 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/12/22 08:44	10/12/22 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	10/12/22 08:44	10/12/22 15:55	1
o-Terphenyl	85		70 - 130	10/12/22 08:44	10/12/22 15:55	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.6		4.96		mg/Kg			10/12/22 15:02	1

Client Sample ID: BH-4 (0-2)

Lab Sample ID: 880-20138-24

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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		10/10/22 16:36	10/11/22 17:21	1
Toluene	0.0256		0.00198		mg/Kg		10/10/22 16:36	10/11/22 17:21	1
Ethylbenzene	0.0774		0.00198		mg/Kg		10/10/22 16:36	10/11/22 17:21	1
m-Xylene & p-Xylene	0.194		0.00396		mg/Kg		10/10/22 16:36	10/11/22 17:21	1
o-Xylene	0.106		0.00198		mg/Kg		10/10/22 16:36	10/11/22 17:21	1
Xylenes, Total	0.300		0.00396		mg/Kg		10/10/22 16:36	10/11/22 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/10/22 16:36	10/11/22 17:21	1
1,4-Difluorobenzene (Surr)	74		70 - 130	10/10/22 16:36	10/11/22 17:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-4 (0-2)

Lab Sample ID: 880-20138-24

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.403		0.00396		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2240		49.8		mg/Kg			10/12/22 09:35	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	372		49.8		mg/Kg		10/11/22 17:37	10/12/22 02:07	1
Diesel Range Organics (Over C10-C28)	1870		49.8		mg/Kg		10/11/22 17:37	10/12/22 02:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/22 17:37	10/12/22 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				10/11/22 17:37	10/12/22 02:07	1
o-Terphenyl	82		70 - 130				10/11/22 17:37	10/12/22 02:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	395		4.96		mg/Kg			10/11/22 15:34	1

Client Sample ID: BH-4 (4')

Lab Sample ID: 880-20138-25

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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		10/11/22 14:31	10/12/22 12:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/22 14:31	10/12/22 12:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/22 14:31	10/12/22 12:04	1
m-Xylene & p-Xylene	0.00658		0.00398		mg/Kg		10/11/22 14:31	10/12/22 12:04	1
o-Xylene	0.00490		0.00199		mg/Kg		10/11/22 14:31	10/12/22 12:04	1
Xylenes, Total	0.0115		0.00398		mg/Kg		10/11/22 14:31	10/12/22 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				10/11/22 14:31	10/12/22 12:04	1
1,4-Difluorobenzene (Surr)	80		70 - 130				10/11/22 14:31	10/12/22 12:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0115		0.00398		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	357		50.0		mg/Kg			10/12/22 09:35	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		10/11/22 17:37	10/12/22 03:13	1
Diesel Range Organics (Over C10-C28)	357		50.0		mg/Kg		10/11/22 17:37	10/12/22 03:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-4 (4')

Lab Sample ID: 880-20138-25

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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)	<50.0	U	50.0		mg/Kg		10/11/22 17:37	10/12/22 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				10/11/22 17:37	10/12/22 03:13	1
o-Terphenyl	79		70 - 130				10/11/22 17:37	10/12/22 03:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.6		5.05		mg/Kg			10/11/22 15:42	1

Client Sample ID: BH-4 (6')

Lab Sample ID: 880-20138-26

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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		10/10/22 16:36	10/11/22 17:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/22 16:36	10/11/22 17:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/22 16:36	10/11/22 17:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/10/22 16:36	10/11/22 17:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/22 16:36	10/11/22 17:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/10/22 16:36	10/11/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/10/22 16:36	10/11/22 17:41	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/10/22 16:36	10/11/22 17:41	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			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.6		49.9		mg/Kg			10/12/22 09:35	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		10/11/22 17:37	10/12/22 03:34	1
Diesel Range Organics (Over C10-C28)	85.6		49.9		mg/Kg		10/11/22 17:37	10/12/22 03:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/22 17:37	10/12/22 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				10/11/22 17:37	10/12/22 03:34	1
o-Terphenyl	74		70 - 130				10/11/22 17:37	10/12/22 03:34	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.5		4.95		mg/Kg			10/11/22 15:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-4 (15')

Lab Sample ID: 880-20138-27

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

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		10/12/22 10:00	10/12/22 19:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/12/22 10:00	10/12/22 19:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/12/22 10:00	10/12/22 19:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/12/22 10:00	10/12/22 19:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/12/22 10:00	10/12/22 19:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/12/22 10:00	10/12/22 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/12/22 10:00	10/12/22 19:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/12/22 10:00	10/12/22 19:17	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			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/12/22 09:35	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		10/12/22 08:44	10/12/22 17:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/12/22 08:44	10/12/22 17:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/12/22 08:44	10/12/22 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	10/12/22 08:44	10/12/22 17:07	1
o-Terphenyl	78		70 - 130	10/12/22 08:44	10/12/22 17:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.1		5.01		mg/Kg			10/12/22 15:07	1

Client Sample ID: BH-4 (20')

Lab Sample ID: 880-20138-28

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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		10/12/22 10:00	10/12/22 19:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/12/22 19:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/12/22 19:38	1
m-Xylene & p-Xylene	0.00601		0.00401		mg/Kg		10/12/22 10:00	10/12/22 19:38	1
o-Xylene	0.00348		0.00200		mg/Kg		10/12/22 10:00	10/12/22 19:38	1
Xylenes, Total	0.00949		0.00401		mg/Kg		10/12/22 10:00	10/12/22 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	10/12/22 10:00	10/12/22 19:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/12/22 10:00	10/12/22 19:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-4 (20')

Lab Sample ID: 880-20138-28

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 15:09

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00949		0.00401		mg/Kg			10/11/22 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	219		50.0		mg/Kg			10/12/22 09:35	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		10/12/22 08:44	10/12/22 17:28	1
Diesel Range Organics (Over C10-C28)	145		50.0		mg/Kg		10/12/22 08:44	10/12/22 17:28	1
Oil Range Organics (Over C28-C36)	74.3		50.0		mg/Kg		10/12/22 08:44	10/12/22 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				10/12/22 08:44	10/12/22 17:28	1
o-Terphenyl	91		70 - 130				10/12/22 08:44	10/12/22 17:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.02		mg/Kg			10/12/22 15:12	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-20035-A-8-F MS	Matrix Spike	120	113
880-20035-A-8-G MSD	Matrix Spike Duplicate	109	95
880-20137-A-1-D MS	Matrix Spike	99	101
880-20137-A-1-E MSD	Matrix Spike Duplicate	101	99
880-20138-1	BH-1 (0-2')	78	84
880-20138-2	BH-1 (4')	97	90
880-20138-3	BH-1 (6')	104	97
880-20138-4	BH-1 (15')	115	94
880-20138-5	BH-1 (20')	108	91
880-20138-6	BH-2 (0-2')	429 S1+	86
880-20138-7	BH-2 (4')	58 S1-	112
880-20138-8	BH-2 (6')	180 S1+	122
880-20138-9	BH-2 (8')	142 S1+	111
880-20138-10	BH-2 (10')	146 S1+	120
880-20138-11	BH-2 (15')	96	104
880-20138-11 MS	BH-2 (15')	98	104
880-20138-11 MSD	BH-2 (15')	100	108
880-20138-12	BH-2 (30')	92	94
880-20138-13	BH-2 (35')	42 S1-	67 S1-
880-20138-15	BH-3 (0-2')	123	107
880-20138-16	BH-3 (4')	92	82
880-20138-17	BH-3 (6')	92	82
880-20138-18	BH-3 (8')	89	80
880-20138-19	BH-3 (10')	84	77
880-20138-20	BH-3 (15')	96	86
880-20138-21	BH-3 (30')	159 S1+	126
880-20138-22	BH-3 (35')	59 S1-	67 S1-
880-20138-24	BH-4 (0-2)	110	74
880-20138-25	BH-4 (4')	94	80
880-20138-26	BH-4 (6')	99	103
880-20138-27	BH-4 (15')	108	94
880-20138-28	BH-4 (20')	107	93
880-20176-A-1-D MS	Matrix Spike	97	87
880-20176-A-1-E MSD	Matrix Spike Duplicate	107	92
880-20176-A-12-C MS	Matrix Spike	89	90
880-20176-A-12-D MSD	Matrix Spike Duplicate	85	89
880-20232-A-1-A MS	Matrix Spike	99	107
880-20232-A-1-B MSD	Matrix Spike Duplicate	77	109
LCS 880-36596/1-A	Lab Control Sample	102	96
LCS 880-36606/1-A	Lab Control Sample	102	100
LCS 880-36678/1-A	Lab Control Sample	108	97
LCS 880-36686/1-A	Lab Control Sample	84	90
LCS 880-36699/1-A	Lab Control Sample	100	97
LCS 880-36766/1-A	Lab Control Sample	116	98
LCSD 880-36596/2-A	Lab Control Sample Dup	107	102
LCSD 880-36606/2-A	Lab Control Sample Dup	103	101
LCSD 880-36678/2-A	Lab Control Sample Dup	100	96
LCSD 880-36686/2-A	Lab Control Sample Dup	90	90
LCSD 880-36699/2-A	Lab Control Sample Dup	103	104

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-20138-1

Project/Site: Merchant Livestock 19 State Com 1H

SDG: Lea Co, NM

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)
LCSD 880-36766/2-A	Lab Control Sample Dup	114	100
MB 880-36500/8	Method Blank	68 S1-	93
MB 880-36596/5-A	Method Blank	43877 S1+	60354 S1+
MB 880-36606/5-A	Method Blank	94	112
MB 880-36678/5-A	Method Blank	69 S1-	91
MB 880-36686/5-A	Method Blank	103	84
MB 880-36699/5-A	Method Blank	90	112
MB 880-36730/8	Method Blank	70	89
MB 880-36766/5-A	Method Blank	71	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 (70-130)	OTPH1 (70-130)
880-20138-1	BH-1 (0-2')	88	82
880-20138-2	BH-1 (4')	90	97
880-20138-3	BH-1 (6')	75	81
880-20138-4	BH-1 (15')	85	87
880-20138-4 MS	BH-1 (15')	74	67 S1-
880-20138-4 MSD	BH-1 (15')	75	66 S1-
880-20138-5	BH-1 (20')	91	91
880-20138-6	BH-2 (0-2')	89	85
880-20138-7	BH-2 (4')	89	84
880-20138-8	BH-2 (6')	85	85
880-20138-9	BH-2 (8')	85	80
880-20138-10	BH-2 (10')	86	77
880-20138-11	BH-2 (15')	91	79
880-20138-11 MS	BH-2 (15')	93	79
880-20138-11 MSD	BH-2 (15')	94	79
880-20138-12	BH-2 (30')	88	88
880-20138-13	BH-2 (35')	88	88
880-20138-15	BH-3 (0-2')	72	74
880-20138-16	BH-3 (4')	102	83
880-20138-17	BH-3 (6')	100	86
880-20138-18	BH-3 (8')	99	86
880-20138-19	BH-3 (10')	98	85
880-20138-20	BH-3 (15')	86	75
880-20138-21	BH-3 (30')	92	91
880-20138-22	BH-3 (35')	86	85
880-20138-24	BH-4 (0-2)	93	82
880-20138-25	BH-4 (4')	88	79
880-20138-26	BH-4 (6')	85	74
880-20138-27	BH-4 (15')	78	78
880-20138-28	BH-4 (20')	90	91

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Surrogate Summary

Client: Carmona Resources

Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1

SDG: Lea Co, NM

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)				
890-3173-A-49-C MS	Matrix Spike	87	84				
890-3173-A-49-D MSD	Matrix Spike Duplicate	86	81				
LCS 880-36608/2-A	Lab Control Sample	117	127				
LCS 880-36705/2-A	Lab Control Sample	92	94				
LCS 880-36718/2-A	Lab Control Sample	99	107				
LCSD 880-36608/3-A	Lab Control Sample Dup	98	109				
LCSD 880-36705/3-A	Lab Control Sample Dup	91	89				
LCSD 880-36718/3-A	Lab Control Sample Dup	88	94				
MB 880-36608/1-A	Method Blank	111	123				
MB 880-36705/1-A	Method Blank	6 S1-	9 S1-				
MB 880-36718/1-A	Method Blank	83	92				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36500/8

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			10/10/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg			10/10/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			10/10/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			10/10/22 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			10/10/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			10/10/22 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130		10/10/22 11:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130		10/10/22 11:47	1

Lab Sample ID: MB 880-36596/5-A

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/22 15:30	10/11/22 02:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/10/22 15:30	10/11/22 02:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	43877	S1+	70 - 130	10/10/22 15:30	10/11/22 02:13	1
1,4-Difluorobenzene (Surr)	60354	S1+	70 - 130	10/10/22 15:30	10/11/22 02:13	1

Lab Sample ID: LCS 880-36596/1-A

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09879		mg/Kg		99	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09404		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-36596/2-A

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09809		mg/Kg		98	70 - 130	1	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-36596/2-A

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.09996		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2093		mg/Kg		105	70 - 130	0	35
o-Xylene	0.100	0.09382		mg/Kg		94	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-20137-A-1-D MS

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.08667		mg/Kg		87	70 - 130
Toluene	<0.00201	U	0.0998	0.08602		mg/Kg		86	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.08841		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1847		mg/Kg		93	70 - 130
o-Xylene	<0.00201	U	0.0998	0.08295		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-20137-A-1-E MSD

Matrix: Solid

Analysis Batch: 36500

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.09314		mg/Kg		94	70 - 130	7	35
Toluene	<0.00201	U	0.0996	0.09820		mg/Kg		99	70 - 130	13	35
Ethylbenzene	<0.00201	U	0.0996	0.09555		mg/Kg		96	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1975		mg/Kg		99	70 - 130	7	35
o-Xylene	<0.00201	U	0.0996	0.08735		mg/Kg		88	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-36606/5-A

Matrix: Solid

Analysis Batch: 36670

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/10/22 16:36	10/11/22 16:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/10/22 16:36	10/11/22 16:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/10/22 16:36	10/11/22 16:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/10/22 16:36	10/11/22 16:32	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-36606/5-A

Matrix: Solid

Analysis Batch: 36670

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/10/22 16:36	10/11/22 16:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/10/22 16:36	10/11/22 16:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				10/10/22 16:36	10/11/22 16:32	1
1,4-Difluorobenzene (Surr)	112		70 - 130				10/10/22 16:36	10/11/22 16:32	1

Lab Sample ID: LCS 880-36606/1-A

Matrix: Solid

Analysis Batch: 36670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1012		mg/Kg		101	70 - 130
Toluene	0.100	0.1093		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.09703		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1992		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09727		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	102		70 - 130				
1,4-Difluorobenzene (Surr)	100		70 - 130				

Lab Sample ID: LCSD 880-36606/2-A

Matrix: Solid

Analysis Batch: 36670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36606

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1018		mg/Kg		102	70 - 130	0	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	0	35
Ethylbenzene	0.100	0.09719		mg/Kg		97	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	1	35
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 880-20138-11 MS

Matrix: Solid

Analysis Batch: 36670

Client Sample ID: BH-2 (15')

Prep Type: Total/NA

Prep Batch: 36606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1031		mg/Kg		102	70 - 130
Toluene	<0.00199	U	0.101	0.09761		mg/Kg		97	70 - 130
Ethylbenzene	0.00430		0.101	0.08441		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.0111		0.202	0.1782		mg/Kg		83	70 - 130
o-Xylene	0.00859		0.101	0.08788		mg/Kg		79	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-20138-11 MS

Matrix: Solid

Analysis Batch: 36670

Client Sample ID: BH-2 (15')

Prep Type: Total/NA

Prep Batch: 36606

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-20138-11 MSD

Matrix: Solid

Analysis Batch: 36670

Client Sample ID: BH-2 (15')

Prep Type: Total/NA

Prep Batch: 36606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.1010		mg/Kg		102	70 - 130	2	35
Toluene	<0.00199	U	0.0994	0.09573		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.00430		0.0994	0.08013		mg/Kg		76	70 - 130	5	35
m-Xylene & p-Xylene	0.0111		0.199	0.1701		mg/Kg		80	70 - 130	5	35
o-Xylene	0.00859		0.0994	0.08391		mg/Kg		76	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-36678/5-A

Matrix: Solid

Analysis Batch: 36674

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/22 13:04	10/11/22 15:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/22 13:04	10/11/22 15:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/22 13:04	10/11/22 15:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/22 13:04	10/11/22 15:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/22 13:04	10/11/22 15:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/22 13:04	10/11/22 15:54	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	10/11/22 13:04	10/11/22 15:54	1			
1,4-Difluorobenzene (Surr)	91		70 - 130	10/11/22 13:04	10/11/22 15:54	1			

Lab Sample ID: LCS 880-36678/1-A

Matrix: Solid

Analysis Batch: 36674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1086		mg/Kg		109	70 - 130
Toluene	0.100	0.1120		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1075		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2305		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-36678/1-A

Matrix: Solid

Analysis Batch: 36674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36678

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-36678/2-A

Matrix: Solid

Analysis Batch: 36674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36678

	Spike	LCSD	LCSD					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1102		mg/Kg		110	70 - 130	1	35
Toluene	0.100	0.1145		mg/Kg		115	70 - 130	2	35
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2286		mg/Kg		114	70 - 130	1	35
o-Xylene	0.100	0.09948		mg/Kg		99	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-20176-A-1-D MS

Matrix: Solid

Analysis Batch: 36674

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36678

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.100	0.08021		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.100	0.08435		mg/Kg		84	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.08430		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1758		mg/Kg		88	70 - 130
o-Xylene	<0.00201	U	0.100	0.07903		mg/Kg		79	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-20176-A-1-E MSD

Matrix: Solid

Analysis Batch: 36674

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36678

	Sample	Sample	Spike	MSD	MSD			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.0990	0.09757		mg/Kg		99	70 - 130
Toluene	<0.00201	U	0.0990	0.1033		mg/Kg		104	70 - 130
Ethylbenzene	<0.00201	U	0.0990	0.1008		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2094		mg/Kg		106	70 - 130
o-Xylene	<0.00201	U	0.0990	0.09314		mg/Kg		94	70 - 130

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-36686/5-A

Matrix: Solid

Analysis Batch: 36715

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/22 14:31	10/12/22 11:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/22 14:31	10/12/22 11:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/22 14:31	10/12/22 11:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/22 14:31	10/12/22 11:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/22 14:31	10/12/22 11:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/22 14:31	10/12/22 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/11/22 14:31	10/12/22 11:01	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/11/22 14:31	10/12/22 11:01	1

Lab Sample ID: LCS 880-36686/1-A

Matrix: Solid

Analysis Batch: 36715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1008		mg/Kg		101	70 - 130
Toluene	0.100	0.1020		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09606		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1983		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09918		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-36686/2-A

Matrix: Solid

Analysis Batch: 36715

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1024		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.1064		mg/Kg		106	70 - 130	4	35
Ethylbenzene	0.100	0.09847		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2051		mg/Kg		103	70 - 130	3	35
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-20176-A-12-C MS

Matrix: Solid

Analysis Batch: 36715

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36686

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.1018		mg/Kg		102	70 - 130
Toluene	<0.00201	U	0.0998	0.1041		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-20176-A-12-C MS

Matrix: Solid

Analysis Batch: 36715

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36686

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.09844		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2047		mg/Kg		103	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1010		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-20176-A-12-D MSD

Matrix: Solid

Analysis Batch: 36715

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36686

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.09470		mg/Kg		95	70 - 130	7	35
Toluene	<0.00201	U	0.0996	0.09624		mg/Kg		97	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.0996	0.09061		mg/Kg		91	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1862		mg/Kg		93	70 - 130	9	35
o-Xylene	<0.00201	U	0.0996	0.09149		mg/Kg		92	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-36699/5-A

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/22 16:29	10/12/22 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/11/22 16:29	10/12/22 11:29	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/11/22 16:29	10/12/22 11:29	1

Lab Sample ID: LCS 880-36699/1-A

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08151		mg/Kg		82	70 - 130
Toluene	0.100	0.08917		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.07884		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1575		mg/Kg		79	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-36699/1-A

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.07833		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-36699/2-A

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09035		mg/Kg		90	70 - 130	10	35
Toluene	0.100	0.09725		mg/Kg		97	70 - 130	9	35
Ethylbenzene	0.100	0.08683		mg/Kg		87	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1722		mg/Kg		86	70 - 130	9	35
o-Xylene	0.100	0.08568		mg/Kg		86	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-20232-A-1-A MS

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09214		mg/Kg		92	70 - 130
Toluene	<0.00201	U F1	0.100	0.09307		mg/Kg		93	70 - 130
Ethylbenzene	<0.00201	U F2 F1	0.100	0.07772		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.201	0.1563		mg/Kg		78	70 - 130
o-Xylene	<0.00201	U F2 F1	0.100	0.07596		mg/Kg		75	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-20232-A-1-B MSD

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.07929		mg/Kg		79	70 - 130	15	35
Toluene	<0.00201	U F1	0.0998	0.06564	F1	mg/Kg		66	70 - 130	35	35
Ethylbenzene	<0.00201	U F2 F1	0.0998	0.05281	F2 F1	mg/Kg		53	70 - 130	38	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.09464	F2 F1	mg/Kg		47	70 - 130	49	35
o-Xylene	<0.00201	U F2 F1	0.0998	0.04674	F2 F1	mg/Kg		46	70 - 130	48	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-20232-A-1-B MSD

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36699

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-36730/8

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			10/12/22 20:09	1
Toluene	<0.00200	U	0.00200		mg/Kg			10/12/22 20:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			10/12/22 20:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			10/12/22 20:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			10/12/22 20:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			10/12/22 20:09	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	70		70 - 130					10/12/22 20:09	1
1,4-Difluorobenzene (Surr)	89		70 - 130					10/12/22 20:09	1

Lab Sample ID: MB 880-36766/5-A

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36766

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	71		70 - 130				10/12/22 15:17	10/13/22 05:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130				10/12/22 15:17	10/13/22 05:37	1

Lab Sample ID: LCS 880-36766/1-A

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Spike	LCS	LCS					%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1072		mg/Kg		107	70 - 130		
Toluene	0.100	0.09832		mg/Kg		98	70 - 130		
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene	0.200	0.2239		mg/Kg		112	70 - 130		
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130		

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-36766/1-A

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36766

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-36766/2-A

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09483		mg/Kg		95	70 - 130	12	35
Toluene	0.100	0.08791		mg/Kg		88	70 - 130	11	35
Ethylbenzene	0.100	0.09723		mg/Kg		97	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2023		mg/Kg		101	70 - 130	10	35
o-Xylene	0.100	0.09285		mg/Kg		93	70 - 130	9	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-20035-A-8-F MS

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.1017		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.0996	0.09605		mg/Kg		96	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.08450		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1729		mg/Kg		87	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.07821		mg/Kg		79	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-20035-A-8-G MSD

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.08868		mg/Kg		89	70 - 130	14	35
Toluene	<0.00200	U	0.0994	0.08189		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00200	U	0.0994	0.07233		mg/Kg		73	70 - 130	16	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1456		mg/Kg		73	70 - 130	17	35
o-Xylene	<0.00200	U F1	0.0994	0.06724	F1	mg/Kg		68	70 - 130	15	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-36608/1-A

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36608

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		10/10/22 16:51	10/11/22 10:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/10/22 16:51	10/11/22 10:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/10/22 16:51	10/11/22 10:33	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/10/22 16:51	10/11/22 10:33	1
o-Terphenyl	123		70 - 130				10/10/22 16:51	10/11/22 10:33	1

Lab Sample ID: LCS 880-36608/2-A

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1137		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	117		70 - 130				
o-Terphenyl	127		70 - 130				

Lab Sample ID: LCSD 880-36608/3-A

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	946.9		mg/Kg		95	70 - 130	9	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 890-3173-A-49-C MS

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36608

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	999	1010		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	433		999	1290		mg/Kg		86	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-3173-A-49-C MS

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36608

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-3173-A-49-D MSD

Matrix: Solid

Analysis Batch: 36630

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36608

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	1000	985.5		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	433		1000	1243		mg/Kg		81	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: MB 880-36705/1-A

Matrix: Solid

Analysis Batch: 36635

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36705

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		10/11/22 17:37	10/11/22 20:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/22 17:37	10/11/22 20:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/22 17:37	10/11/22 20:40	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	6	S1-	70 - 130				10/11/22 17:37	10/11/22 20:40	1
o-Terphenyl	9	S1-	70 - 130				10/11/22 17:37	10/11/22 20:40	1

Lab Sample ID: LCS 880-36705/2-A

Matrix: Solid

Analysis Batch: 36635

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	820.8		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	948.3		mg/Kg		95	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	94		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-36705/3-A

Matrix: Solid

Analysis Batch: 36635

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36705

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	818.4		mg/Kg		82	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	903.0		mg/Kg		90	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	91		70 - 130						
o-Terphenyl	89		70 - 130						

Lab Sample ID: 880-20138-11 MS

Matrix: Solid

Analysis Batch: 36635

Client Sample ID: BH-2 (15')

Prep Type: Total/NA

Prep Batch: 36705

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	<49.8	U	998	839.4		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	124		998	848.3		mg/Kg		73	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	79		70 - 130								

Lab Sample ID: 880-20138-11 MSD

Matrix: Solid

Analysis Batch: 36635

Client Sample ID: BH-2 (15')

Prep Type: Total/NA

Prep Batch: 36705

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	998	824.1		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	124		998	865.3		mg/Kg		74	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	79		70 - 130								

Lab Sample ID: MB 880-36718/1-A

Matrix: Solid

Analysis Batch: 36713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36718

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		10/12/22 08:44	10/12/22 11:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/12/22 08:44	10/12/22 11:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/12/22 08:44	10/12/22 11:04	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-36718/1-A

Matrix: Solid

Analysis Batch: 36713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36718

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	10/12/22 08:44	10/12/22 11:04	1
o-Terphenyl	92		70 - 130	10/12/22 08:44	10/12/22 11:04	1

Lab Sample ID: LCS 880-36718/2-A

Matrix: Solid

Analysis Batch: 36713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36718

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1007		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	903.1		mg/Kg		90	70 - 130		

	LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	99		70 - 130			
o-Terphenyl	107		70 - 130			

Lab Sample ID: LCSD 880-36718/3-A

Matrix: Solid

Analysis Batch: 36713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36718

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	824.6		mg/Kg		82	70 - 130	20	20	
Diesel Range Organics (Over C10-C28)			1000	942.9		mg/Kg		94	70 - 130	4	20	

	LCSD	LCSD				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	88		70 - 130			
o-Terphenyl	94		70 - 130			

Lab Sample ID: 880-20138-4 MS

Matrix: Solid

Analysis Batch: 36713

Client Sample ID: BH-1 (15')

Prep Type: Total/NA

Prep Batch: 36718

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1005		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	700.9		mg/Kg		70	70 - 130		

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	74		70 - 130			
o-Terphenyl	67	S1-	70 - 130			

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-20138-4 MSD

Matrix: Solid

Analysis Batch: 36713

Client Sample ID: BH-1 (15')

Prep Type: Total/NA

Prep Batch: 36718

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	998	1021		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	713.6		mg/Kg		72	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	75		70 - 130								
o-Terphenyl	66	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36604/1-A

Matrix: Solid

Analysis Batch: 36639

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			10/11/22 12:13	1

Lab Sample ID: LCS 880-36604/2-A

Matrix: Solid

Analysis Batch: 36639

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	252.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-36604/3-A

Matrix: Solid

Analysis Batch: 36639

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	252.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-20138-1 MS

Matrix: Solid

Analysis Batch: 36639

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	221		248	463.7		mg/Kg		98	90 - 110		

Lab Sample ID: 880-20138-1 MSD

Matrix: Solid

Analysis Batch: 36639

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	221		248	463.6		mg/Kg		98	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20138-16 MS

Matrix: Solid

Analysis Batch: 36639

Client Sample ID: BH-3 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	142		250	386.8		mg/Kg		98	90 - 110

Lab Sample ID: 880-20138-16 MSD

Matrix: Solid

Analysis Batch: 36639

Client Sample ID: BH-3 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	142		250	386.6		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-36751/1-A

Matrix: Solid

Analysis Batch: 36760

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			10/12/22 12:51	1

Lab Sample ID: LCS 880-36751/2-A

Matrix: Solid

Analysis Batch: 36760

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.4		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-36751/3-A

Matrix: Solid

Analysis Batch: 36760

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	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-3192-A-7-D MS

Matrix: Solid

Analysis Batch: 36760

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	1490		1250	2841		mg/Kg		108	90 - 110

Lab Sample ID: 890-3192-A-7-E MSD

Matrix: Solid

Analysis Batch: 36760

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	1490		1250	2840		mg/Kg		108	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 36500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-2	BH-1 (4')	Total/NA	Solid	8021B	36596
880-20138-3	BH-1 (6')	Total/NA	Solid	8021B	36596
880-20138-6	BH-2 (0-2')	Total/NA	Solid	8021B	36596
880-20138-7	BH-2 (4')	Total/NA	Solid	8021B	36596
880-20138-8	BH-2 (6')	Total/NA	Solid	8021B	36596
880-20138-10	BH-2 (10')	Total/NA	Solid	8021B	36596
MB 880-36500/8	Method Blank	Total/NA	Solid	8021B	
MB 880-36596/5-A	Method Blank	Total/NA	Solid	8021B	36596
LCS 880-36596/1-A	Lab Control Sample	Total/NA	Solid	8021B	36596
LCSD 880-36596/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36596
880-20137-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	36596
880-20137-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36596

Prep Batch: 36596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-2	BH-1 (4')	Total/NA	Solid	5035	
880-20138-3	BH-1 (6')	Total/NA	Solid	5035	
880-20138-6	BH-2 (0-2')	Total/NA	Solid	5035	
880-20138-7	BH-2 (4')	Total/NA	Solid	5035	
880-20138-8	BH-2 (6')	Total/NA	Solid	5035	
880-20138-10	BH-2 (10')	Total/NA	Solid	5035	
MB 880-36596/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36596/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36596/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20137-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-20137-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 36606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-11	BH-2 (15')	Total/NA	Solid	5035	
880-20138-15	BH-3 (0-2')	Total/NA	Solid	5035	
880-20138-16	BH-3 (4')	Total/NA	Solid	5035	
880-20138-17	BH-3 (6')	Total/NA	Solid	5035	
880-20138-18	BH-3 (8')	Total/NA	Solid	5035	
880-20138-24	BH-4 (0-2)	Total/NA	Solid	5035	
880-20138-26	BH-4 (6')	Total/NA	Solid	5035	
MB 880-36606/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36606/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36606/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20138-11 MS	BH-2 (15')	Total/NA	Solid	5035	
880-20138-11 MSD	BH-2 (15')	Total/NA	Solid	5035	

Analysis Batch: 36670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-11	BH-2 (15')	Total/NA	Solid	8021B	36606
880-20138-15	BH-3 (0-2')	Total/NA	Solid	8021B	36606
880-20138-16	BH-3 (4')	Total/NA	Solid	8021B	36606
880-20138-17	BH-3 (6')	Total/NA	Solid	8021B	36606
880-20138-18	BH-3 (8')	Total/NA	Solid	8021B	36606
880-20138-24	BH-4 (0-2)	Total/NA	Solid	8021B	36606
880-20138-26	BH-4 (6')	Total/NA	Solid	8021B	36606

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
 SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 36670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-36606/5-A	Method Blank	Total/NA	Solid	8021B	36606
LCS 880-36606/1-A	Lab Control Sample	Total/NA	Solid	8021B	36606
LCSD 880-36606/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36606
880-20138-11 MS	BH-2 (15')	Total/NA	Solid	8021B	36606
880-20138-11 MSD	BH-2 (15')	Total/NA	Solid	8021B	36606

Analysis Batch: 36674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-2	BH-1 (4')	Total/NA	Solid	8021B	36678
880-20138-6	BH-2 (0-2')	Total/NA	Solid	8021B	36678
880-20138-7	BH-2 (4')	Total/NA	Solid	8021B	36678
880-20138-9	BH-2 (8')	Total/NA	Solid	8021B	36678
MB 880-36678/5-A	Method Blank	Total/NA	Solid	8021B	36678
LCS 880-36678/1-A	Lab Control Sample	Total/NA	Solid	8021B	36678
LCSD 880-36678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36678
880-20176-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	36678
880-20176-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36678

Prep Batch: 36678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-2	BH-1 (4')	Total/NA	Solid	5035	
880-20138-6	BH-2 (0-2')	Total/NA	Solid	5035	
880-20138-7	BH-2 (4')	Total/NA	Solid	5035	
880-20138-9	BH-2 (8')	Total/NA	Solid	5035	
MB 880-36678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20176-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-20176-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 36683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-1	BH-1 (0-2')	Total/NA	Solid	Total BTEX	
880-20138-2	BH-1 (4')	Total/NA	Solid	Total BTEX	
880-20138-3	BH-1 (6')	Total/NA	Solid	Total BTEX	
880-20138-4	BH-1 (15')	Total/NA	Solid	Total BTEX	
880-20138-5	BH-1 (20')	Total/NA	Solid	Total BTEX	
880-20138-6	BH-2 (0-2')	Total/NA	Solid	Total BTEX	
880-20138-7	BH-2 (4')	Total/NA	Solid	Total BTEX	
880-20138-8	BH-2 (6')	Total/NA	Solid	Total BTEX	
880-20138-9	BH-2 (8')	Total/NA	Solid	Total BTEX	
880-20138-10	BH-2 (10')	Total/NA	Solid	Total BTEX	
880-20138-11	BH-2 (15')	Total/NA	Solid	Total BTEX	
880-20138-12	BH-2 (30')	Total/NA	Solid	Total BTEX	
880-20138-13	BH-2 (35')	Total/NA	Solid	Total BTEX	
880-20138-15	BH-3 (0-2')	Total/NA	Solid	Total BTEX	
880-20138-16	BH-3 (4')	Total/NA	Solid	Total BTEX	
880-20138-17	BH-3 (6')	Total/NA	Solid	Total BTEX	
880-20138-18	BH-3 (8')	Total/NA	Solid	Total BTEX	
880-20138-19	BH-3 (10')	Total/NA	Solid	Total BTEX	
880-20138-20	BH-3 (15')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 36683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-21	BH-3 (30')	Total/NA	Solid	Total BTEX	
880-20138-22	BH-3 (35')	Total/NA	Solid	Total BTEX	
880-20138-24	BH-4 (0-2)	Total/NA	Solid	Total BTEX	
880-20138-25	BH-4 (4')	Total/NA	Solid	Total BTEX	
880-20138-26	BH-4 (6')	Total/NA	Solid	Total BTEX	
880-20138-27	BH-4 (15')	Total/NA	Solid	Total BTEX	
880-20138-28	BH-4 (20')	Total/NA	Solid	Total BTEX	

Prep Batch: 36686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-4	BH-1 (15')	Total/NA	Solid	5035	
880-20138-5	BH-1 (20')	Total/NA	Solid	5035	
880-20138-13	BH-2 (35')	Total/NA	Solid	5035	
880-20138-21	BH-3 (30')	Total/NA	Solid	5035	
880-20138-22	BH-3 (35')	Total/NA	Solid	5035	
880-20138-25	BH-4 (4')	Total/NA	Solid	5035	
880-20138-27	BH-4 (15')	Total/NA	Solid	5035	
880-20138-28	BH-4 (20')	Total/NA	Solid	5035	
MB 880-36686/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36686/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36686/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20176-A-12-C MS	Matrix Spike	Total/NA	Solid	5035	
880-20176-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 36699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-1	BH-1 (0-2')	Total/NA	Solid	5035	
880-20138-19	BH-3 (10')	Total/NA	Solid	5035	
880-20138-20	BH-3 (15')	Total/NA	Solid	5035	
MB 880-36699/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36699/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36699/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20232-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-20232-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 36715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-4	BH-1 (15')	Total/NA	Solid	8021B	36686
880-20138-5	BH-1 (20')	Total/NA	Solid	8021B	36686
880-20138-13	BH-2 (35')	Total/NA	Solid	8021B	36686
880-20138-21	BH-3 (30')	Total/NA	Solid	8021B	36686
880-20138-22	BH-3 (35')	Total/NA	Solid	8021B	36686
880-20138-25	BH-4 (4')	Total/NA	Solid	8021B	36686
880-20138-27	BH-4 (15')	Total/NA	Solid	8021B	36686
880-20138-28	BH-4 (20')	Total/NA	Solid	8021B	36686
MB 880-36686/5-A	Method Blank	Total/NA	Solid	8021B	36686
LCS 880-36686/1-A	Lab Control Sample	Total/NA	Solid	8021B	36686
LCSD 880-36686/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36686
880-20176-A-12-C MS	Matrix Spike	Total/NA	Solid	8021B	36686
880-20176-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36686

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
 SDG: Lea Co, NM

GC VOA

Analysis Batch: 36717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-1	BH-1 (0-2')	Total/NA	Solid	8021B	36699
880-20138-19	BH-3 (10')	Total/NA	Solid	8021B	36699
880-20138-20	BH-3 (15')	Total/NA	Solid	8021B	36699
MB 880-36699/5-A	Method Blank	Total/NA	Solid	8021B	36699
LCS 880-36699/1-A	Lab Control Sample	Total/NA	Solid	8021B	36699
LCSD 880-36699/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36699
880-20232-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	36699
880-20232-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36699

Analysis Batch: 36730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-6	BH-2 (0-2')	Total/NA	Solid	8021B	36766
880-20138-12	BH-2 (30')	Total/NA	Solid	8021B	36766
MB 880-36730/8	Method Blank	Total/NA	Solid	8021B	
MB 880-36766/5-A	Method Blank	Total/NA	Solid	8021B	36766
LCS 880-36766/1-A	Lab Control Sample	Total/NA	Solid	8021B	36766
LCSD 880-36766/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36766
880-20035-A-8-F MS	Matrix Spike	Total/NA	Solid	8021B	36766
880-20035-A-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36766

Prep Batch: 36766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-6	BH-2 (0-2')	Total/NA	Solid	5035	
880-20138-12	BH-2 (30')	Total/NA	Solid	5035	
MB 880-36766/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36766/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36766/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20035-A-8-F MS	Matrix Spike	Total/NA	Solid	5035	
880-20035-A-8-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 36608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-1	BH-1 (0-2')	Total/NA	Solid	8015NM Prep	
880-20138-2	BH-1 (4')	Total/NA	Solid	8015NM Prep	
880-20138-3	BH-1 (6')	Total/NA	Solid	8015NM Prep	
880-20138-6	BH-2 (0-2')	Total/NA	Solid	8015NM Prep	
880-20138-7	BH-2 (4')	Total/NA	Solid	8015NM Prep	
880-20138-8	BH-2 (6')	Total/NA	Solid	8015NM Prep	
MB 880-36608/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36608/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36608/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3173-A-49-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3173-A-49-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 36630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-1	BH-1 (0-2')	Total/NA	Solid	8015B NM	36608
880-20138-2	BH-1 (4')	Total/NA	Solid	8015B NM	36608
880-20138-3	BH-1 (6')	Total/NA	Solid	8015B NM	36608

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
 SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 36630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-6	BH-2 (0-2')	Total/NA	Solid	8015B NM	36608
880-20138-7	BH-2 (4')	Total/NA	Solid	8015B NM	36608
880-20138-8	BH-2 (6')	Total/NA	Solid	8015B NM	36608
MB 880-36608/1-A	Method Blank	Total/NA	Solid	8015B NM	36608
LCS 880-36608/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36608
LCSD 880-36608/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36608
890-3173-A-49-C MS	Matrix Spike	Total/NA	Solid	8015B NM	36608
890-3173-A-49-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	36608

Analysis Batch: 36635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-9	BH-2 (8')	Total/NA	Solid	8015B NM	36705
880-20138-10	BH-2 (10')	Total/NA	Solid	8015B NM	36705
880-20138-11	BH-2 (15')	Total/NA	Solid	8015B NM	36705
880-20138-15	BH-3 (0-2')	Total/NA	Solid	8015B NM	36705
880-20138-16	BH-3 (4')	Total/NA	Solid	8015B NM	36705
880-20138-17	BH-3 (6')	Total/NA	Solid	8015B NM	36705
880-20138-18	BH-3 (8')	Total/NA	Solid	8015B NM	36705
880-20138-19	BH-3 (10')	Total/NA	Solid	8015B NM	36705
880-20138-20	BH-3 (15')	Total/NA	Solid	8015B NM	36705
880-20138-24	BH-4 (0-2)	Total/NA	Solid	8015B NM	36705
880-20138-25	BH-4 (4')	Total/NA	Solid	8015B NM	36705
880-20138-26	BH-4 (6')	Total/NA	Solid	8015B NM	36705
MB 880-36705/1-A	Method Blank	Total/NA	Solid	8015B NM	36705
LCS 880-36705/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36705
LCSD 880-36705/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36705
880-20138-11 MS	BH-2 (15')	Total/NA	Solid	8015B NM	36705
880-20138-11 MSD	BH-2 (15')	Total/NA	Solid	8015B NM	36705

Prep Batch: 36705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-9	BH-2 (8')	Total/NA	Solid	8015NM Prep	
880-20138-10	BH-2 (10')	Total/NA	Solid	8015NM Prep	
880-20138-11	BH-2 (15')	Total/NA	Solid	8015NM Prep	
880-20138-15	BH-3 (0-2')	Total/NA	Solid	8015NM Prep	
880-20138-16	BH-3 (4')	Total/NA	Solid	8015NM Prep	
880-20138-17	BH-3 (6')	Total/NA	Solid	8015NM Prep	
880-20138-18	BH-3 (8')	Total/NA	Solid	8015NM Prep	
880-20138-19	BH-3 (10')	Total/NA	Solid	8015NM Prep	
880-20138-20	BH-3 (15')	Total/NA	Solid	8015NM Prep	
880-20138-24	BH-4 (0-2)	Total/NA	Solid	8015NM Prep	
880-20138-25	BH-4 (4')	Total/NA	Solid	8015NM Prep	
880-20138-26	BH-4 (6')	Total/NA	Solid	8015NM Prep	
MB 880-36705/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36705/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36705/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20138-11 MS	BH-2 (15')	Total/NA	Solid	8015NM Prep	
880-20138-11 MSD	BH-2 (15')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
 SDG: Lea Co, NM

GC Semi VOA

Analysis Batch: 36713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-4	BH-1 (15')	Total/NA	Solid	8015B NM	36718
880-20138-5	BH-1 (20')	Total/NA	Solid	8015B NM	36718
880-20138-12	BH-2 (30')	Total/NA	Solid	8015B NM	36718
880-20138-13	BH-2 (35')	Total/NA	Solid	8015B NM	36718
880-20138-21	BH-3 (30')	Total/NA	Solid	8015B NM	36718
880-20138-22	BH-3 (35')	Total/NA	Solid	8015B NM	36718
880-20138-27	BH-4 (15')	Total/NA	Solid	8015B NM	36718
880-20138-28	BH-4 (20')	Total/NA	Solid	8015B NM	36718
MB 880-36718/1-A	Method Blank	Total/NA	Solid	8015B NM	36718
LCS 880-36718/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36718
LCSD 880-36718/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36718
880-20138-4 MS	BH-1 (15')	Total/NA	Solid	8015B NM	36718
880-20138-4 MSD	BH-1 (15')	Total/NA	Solid	8015B NM	36718

Prep Batch: 36718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-4	BH-1 (15')	Total/NA	Solid	8015NM Prep	
880-20138-5	BH-1 (20')	Total/NA	Solid	8015NM Prep	
880-20138-12	BH-2 (30')	Total/NA	Solid	8015NM Prep	
880-20138-13	BH-2 (35')	Total/NA	Solid	8015NM Prep	
880-20138-21	BH-3 (30')	Total/NA	Solid	8015NM Prep	
880-20138-22	BH-3 (35')	Total/NA	Solid	8015NM Prep	
880-20138-27	BH-4 (15')	Total/NA	Solid	8015NM Prep	
880-20138-28	BH-4 (20')	Total/NA	Solid	8015NM Prep	
MB 880-36718/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36718/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36718/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20138-4 MS	BH-1 (15')	Total/NA	Solid	8015NM Prep	
880-20138-4 MSD	BH-1 (15')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 36725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-1	BH-1 (0-2')	Total/NA	Solid	8015 NM	
880-20138-2	BH-1 (4')	Total/NA	Solid	8015 NM	
880-20138-3	BH-1 (6')	Total/NA	Solid	8015 NM	
880-20138-4	BH-1 (15')	Total/NA	Solid	8015 NM	
880-20138-5	BH-1 (20')	Total/NA	Solid	8015 NM	
880-20138-6	BH-2 (0-2')	Total/NA	Solid	8015 NM	
880-20138-7	BH-2 (4')	Total/NA	Solid	8015 NM	
880-20138-8	BH-2 (6')	Total/NA	Solid	8015 NM	
880-20138-9	BH-2 (8')	Total/NA	Solid	8015 NM	
880-20138-10	BH-2 (10')	Total/NA	Solid	8015 NM	
880-20138-11	BH-2 (15')	Total/NA	Solid	8015 NM	
880-20138-12	BH-2 (30')	Total/NA	Solid	8015 NM	
880-20138-13	BH-2 (35')	Total/NA	Solid	8015 NM	
880-20138-15	BH-3 (0-2')	Total/NA	Solid	8015 NM	
880-20138-16	BH-3 (4')	Total/NA	Solid	8015 NM	
880-20138-17	BH-3 (6')	Total/NA	Solid	8015 NM	
880-20138-18	BH-3 (8')	Total/NA	Solid	8015 NM	
880-20138-19	BH-3 (10')	Total/NA	Solid	8015 NM	
880-20138-20	BH-3 (15')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 36725 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-21	BH-3 (30')	Total/NA	Solid	8015 NM	
880-20138-22	BH-3 (35')	Total/NA	Solid	8015 NM	
880-20138-24	BH-4 (0-2)	Total/NA	Solid	8015 NM	
880-20138-25	BH-4 (4')	Total/NA	Solid	8015 NM	
880-20138-26	BH-4 (6')	Total/NA	Solid	8015 NM	
880-20138-27	BH-4 (15')	Total/NA	Solid	8015 NM	
880-20138-28	BH-4 (20')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 36604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-1	BH-1 (0-2')	Soluble	Solid	DI Leach	
880-20138-2	BH-1 (4')	Soluble	Solid	DI Leach	
880-20138-3	BH-1 (6')	Soluble	Solid	DI Leach	
880-20138-6	BH-2 (0-2')	Soluble	Solid	DI Leach	
880-20138-7	BH-2 (4')	Soluble	Solid	DI Leach	
880-20138-8	BH-2 (6')	Soluble	Solid	DI Leach	
880-20138-9	BH-2 (8')	Soluble	Solid	DI Leach	
880-20138-10	BH-2 (10')	Soluble	Solid	DI Leach	
880-20138-11	BH-2 (15')	Soluble	Solid	DI Leach	
880-20138-15	BH-3 (0-2')	Soluble	Solid	DI Leach	
880-20138-16	BH-3 (4')	Soluble	Solid	DI Leach	
880-20138-17	BH-3 (6')	Soluble	Solid	DI Leach	
880-20138-18	BH-3 (8')	Soluble	Solid	DI Leach	
880-20138-19	BH-3 (10')	Soluble	Solid	DI Leach	
880-20138-20	BH-3 (15')	Soluble	Solid	DI Leach	
880-20138-24	BH-4 (0-2)	Soluble	Solid	DI Leach	
880-20138-25	BH-4 (4')	Soluble	Solid	DI Leach	
880-20138-26	BH-4 (6')	Soluble	Solid	DI Leach	
MB 880-36604/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36604/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36604/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20138-1 MS	BH-1 (0-2')	Soluble	Solid	DI Leach	
880-20138-1 MSD	BH-1 (0-2')	Soluble	Solid	DI Leach	
880-20138-16 MS	BH-3 (4')	Soluble	Solid	DI Leach	
880-20138-16 MSD	BH-3 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 36639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-1	BH-1 (0-2')	Soluble	Solid	300.0	36604
880-20138-2	BH-1 (4')	Soluble	Solid	300.0	36604
880-20138-3	BH-1 (6')	Soluble	Solid	300.0	36604
880-20138-6	BH-2 (0-2')	Soluble	Solid	300.0	36604
880-20138-7	BH-2 (4')	Soluble	Solid	300.0	36604
880-20138-8	BH-2 (6')	Soluble	Solid	300.0	36604
880-20138-9	BH-2 (8')	Soluble	Solid	300.0	36604
880-20138-10	BH-2 (10')	Soluble	Solid	300.0	36604
880-20138-11	BH-2 (15')	Soluble	Solid	300.0	36604
880-20138-15	BH-3 (0-2')	Soluble	Solid	300.0	36604
880-20138-16	BH-3 (4')	Soluble	Solid	300.0	36604

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
 SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 36639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-17	BH-3 (6')	Soluble	Solid	300.0	36604
880-20138-18	BH-3 (8')	Soluble	Solid	300.0	36604
880-20138-19	BH-3 (10')	Soluble	Solid	300.0	36604
880-20138-20	BH-3 (15')	Soluble	Solid	300.0	36604
880-20138-24	BH-4 (0-2)	Soluble	Solid	300.0	36604
880-20138-25	BH-4 (4')	Soluble	Solid	300.0	36604
880-20138-26	BH-4 (6')	Soluble	Solid	300.0	36604
MB 880-36604/1-A	Method Blank	Soluble	Solid	300.0	36604
LCS 880-36604/2-A	Lab Control Sample	Soluble	Solid	300.0	36604
LCSD 880-36604/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36604
880-20138-1 MS	BH-1 (0-2')	Soluble	Solid	300.0	36604
880-20138-1 MSD	BH-1 (0-2')	Soluble	Solid	300.0	36604
880-20138-16 MS	BH-3 (4')	Soluble	Solid	300.0	36604
880-20138-16 MSD	BH-3 (4')	Soluble	Solid	300.0	36604

Leach Batch: 36751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-4	BH-1 (15')	Soluble	Solid	DI Leach	
880-20138-5	BH-1 (20')	Soluble	Solid	DI Leach	
880-20138-12	BH-2 (30')	Soluble	Solid	DI Leach	
880-20138-13	BH-2 (35')	Soluble	Solid	DI Leach	
880-20138-21	BH-3 (30')	Soluble	Solid	DI Leach	
880-20138-22	BH-3 (35')	Soluble	Solid	DI Leach	
880-20138-27	BH-4 (15')	Soluble	Solid	DI Leach	
880-20138-28	BH-4 (20')	Soluble	Solid	DI Leach	
MB 880-36751/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36751/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36751/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3192-A-7-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3192-A-7-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 36760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20138-4	BH-1 (15')	Soluble	Solid	300.0	36751
880-20138-5	BH-1 (20')	Soluble	Solid	300.0	36751
880-20138-12	BH-2 (30')	Soluble	Solid	300.0	36751
880-20138-13	BH-2 (35')	Soluble	Solid	300.0	36751
880-20138-21	BH-3 (30')	Soluble	Solid	300.0	36751
880-20138-22	BH-3 (35')	Soluble	Solid	300.0	36751
880-20138-27	BH-4 (15')	Soluble	Solid	300.0	36751
880-20138-28	BH-4 (20')	Soluble	Solid	300.0	36751
MB 880-36751/1-A	Method Blank	Soluble	Solid	300.0	36751
LCS 880-36751/2-A	Lab Control Sample	Soluble	Solid	300.0	36751
LCSD 880-36751/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36751
890-3192-A-7-D MS	Matrix Spike	Soluble	Solid	300.0	36751
890-3192-A-7-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	36751

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-20138-1

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	36699	10/11/22 16:29	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	36717	10/12/22 15:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 18:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 12:36	CH	EET MID

Client Sample ID: BH-1 (4')

Lab Sample ID: 880-20138-2

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 08:25	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	36678	10/11/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/11/22 16:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 17:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 13:00	CH	EET MID

Client Sample ID: BH-1 (6')

Lab Sample ID: 880-20138-3

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 08:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 17:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 13:07	CH	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (15')

Lab Sample ID: 880-20138-4

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36686	10/12/22 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36715	10/12/22 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36718	10/12/22 08:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36713	10/12/22 12:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36751	10/12/22 11:01	SMC	EET MID
Soluble	Analysis	300.0		1			36760	10/12/22 14:28	CH	EET MID

Client Sample ID: BH-1 (20')

Lab Sample ID: 880-20138-5

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36686	10/12/22 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36715	10/12/22 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36718	10/12/22 08:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36713	10/12/22 14:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36751	10/12/22 11:01	SMC	EET MID
Soluble	Analysis	300.0		1			36760	10/12/22 14:33	CH	EET MID

Client Sample ID: BH-2 (0-2')

Lab Sample ID: 880-20138-6

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 09:18	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	36678	10/11/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/11/22 17:38	AJ	EET MID
Total/NA	Prep	5035			4.96 g	5 mL	36766	10/12/22 15:17	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	36730	10/13/22 15:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 18:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 13:15	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (4')

Lab Sample ID: 880-20138-7

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 09:44	MNR	EET MID
Total/NA	Prep	5035			4.98 g	5 mL	36678	10/11/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36674	10/11/22 19:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 18:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 13:23	CH	EET MID

Client Sample ID: BH-2 (6')

Lab Sample ID: 880-20138-8

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 00:00

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 10:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36608	10/10/22 16:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36630	10/11/22 19:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 13:46	CH	EET MID

Client Sample ID: BH-2 (8')

Lab Sample ID: 880-20138-9

Date Collected: 10/10/22 00:00

Matrix: Solid

Date Received: 10/10/22 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	36678	10/11/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	36674	10/11/22 19:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/11/22 23:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 13:54	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (10')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-10

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	36596	10/10/22 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36500	10/11/22 11:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/11/22 23:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 14:02	CH	EET MID

Client Sample ID: BH-2 (15')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-11

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	36606	10/10/22 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36670	10/11/22 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/11/22 22:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 14:09	CH	EET MID

Client Sample ID: BH-2 (30')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-12

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			5.02 g	5 mL	36766	10/13/22 08:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36730	10/13/22 12:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36718	10/12/22 08:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36713	10/12/22 14:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36751	10/12/22 11:01	SMC	EET MID
Soluble	Analysis	300.0		1			36760	10/12/22 14:48	CH	EET MID

Client Sample ID: BH-2 (35')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-13

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			5.02 g	5 mL	36686	10/12/22 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36715	10/12/22 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (35')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36718	10/12/22 08:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36713	10/12/22 15:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36751	10/12/22 11:01	SMC	EET MID
Soluble	Analysis	300.0		1			36760	10/12/22 14:53	CH	EET MID

Client Sample ID: BH-3 (0-2')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-15

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			4.97 g	5 mL	36606	10/10/22 16:36	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	36670	10/11/22 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	36635	10/12/22 00:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	36639	10/11/22 14:17	CH	EET MID

Client Sample ID: BH-3 (4')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-16

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			4.96 g	5 mL	36606	10/10/22 16:36	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	36670	10/11/22 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/12/22 00:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 14:25	CH	EET MID

Client Sample ID: BH-3 (6')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-17

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			5.02 g	5 mL	36606	10/10/22 16:36	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	36670	10/11/22 18:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/12/22 01:02	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-3 (6')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-17

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			5.03 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 14:48	CH	EET MID

Client Sample ID: BH-3 (8')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-18

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			4.99 g	5 mL	36606	10/10/22 16:36	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	36670	10/11/22 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/12/22 01:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 14:56	CH	EET MID

Client Sample ID: BH-3 (10')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-19

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			5.00 g	5 mL	36699	10/11/22 16:29	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	36717	10/12/22 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/12/22 01:46	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 15:19	CH	EET MID

Client Sample ID: BH-3 (15')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-20

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			5.01 g	5 mL	36699	10/11/22 16:29	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	36717	10/12/22 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/12/22 02:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 15:27	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-3 (30')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-21

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			5.03 g	5 mL	36686	10/12/22 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36715	10/12/22 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	36718	10/12/22 08:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36713	10/12/22 15:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36751	10/12/22 11:01	SMC	EET MID
Soluble	Analysis	300.0		1			36760	10/12/22 14:57	CH	EET MID

Client Sample ID: BH-3 (35')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-22

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			5.04 g	5 mL	36686	10/12/22 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36715	10/12/22 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36718	10/12/22 08:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36713	10/12/22 15:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	36751	10/12/22 11:01	SMC	EET MID
Soluble	Analysis	300.0		1			36760	10/12/22 15:02	CH	EET MID

Client Sample ID: BH-4 (0-2)

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-24

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			5.05 g	5 mL	36606	10/10/22 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36670	10/11/22 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/12/22 02:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 15:34	CH	EET MID

Client Sample ID: BH-4 (4')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-25

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	36686	10/11/22 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36715	10/12/22 12:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-4 (4')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-25

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			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/12/22 03:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 15:42	CH	EET MID

Client Sample ID: BH-4 (6')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-26

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	36606	10/10/22 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36670	10/11/22 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36705	10/11/22 17:37	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36635	10/12/22 03:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36604	10/10/22 16:03	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	36639	10/11/22 15:50	CH	EET MID

Client Sample ID: BH-4 (15')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	36686	10/12/22 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36715	10/12/22 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36718	10/12/22 08:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36713	10/12/22 17:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	36751	10/12/22 11:01	SMC	EET MID
Soluble	Analysis	300.0		1			36760	10/12/22 15:07	CH	EET MID

Client Sample ID: BH-4 (20')

Date Collected: 10/10/22 00:00

Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-28

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			4.99 g	5 mL	36686	10/12/22 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36715	10/12/22 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36683	10/11/22 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			36725	10/12/22 09:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36718	10/12/22 08:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36713	10/12/22 17:28	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Client Sample ID: BH-4 (20')
Date Collected: 10/10/22 00:00
Date Received: 10/10/22 15:09

Lab Sample ID: 880-20138-28
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			4.98 g	50 mL	36751	10/12/22 11:01	SMC	EET MID
Soluble	Analysis	300.0		1			36760	10/12/22 15:12	CH	EET MID

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

- 1
- 2
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- 14

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

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	T104704400-22-24	06-30-23

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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Merchant Livestock 19 State Com 1H

Job ID: 880-20138-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20138-1	BH-1 (0-2')	Solid	10/10/22 00:00	10/10/22 00:00
880-20138-2	BH-1 (4')	Solid	10/10/22 00:00	10/10/22 00:00
880-20138-3	BH-1 (6')	Solid	10/10/22 00:00	10/10/22 00:00
880-20138-4	BH-1 (15')	Solid	10/10/22 00:00	10/10/22 00:00
880-20138-5	BH-1 (20')	Solid	10/10/22 00:00	10/10/22 00:00
880-20138-6	BH-2 (0-2')	Solid	10/10/22 00:00	10/10/22 00:00
880-20138-7	BH-2 (4')	Solid	10/10/22 00:00	10/10/22 00:00
880-20138-8	BH-2 (6')	Solid	10/10/22 00:00	10/10/22 00:00
880-20138-9	BH-2 (8')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-10	BH-2 (10')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-11	BH-2 (15')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-12	BH-2 (30')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-13	BH-2 (35')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-15	BH-3 (0-2')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-16	BH-3 (4')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-17	BH-3 (6')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-18	BH-3 (8')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-19	BH-3 (10')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-20	BH-3 (15')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-21	BH-3 (30')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-22	BH-3 (35')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-24	BH-4 (0-2')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-25	BH-4 (4')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-26	BH-4 (6')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-27	BH-4 (15')	Solid	10/10/22 00:00	10/10/22 15:09
880-20138-28	BH-4 (20')	Solid	10/10/22 00:00	10/10/22 15:09

MA



880-20138 Chain of Custody

Project Manager	Astron Thieke	Bill to (if different)	Laci Lung
Company Name:	Carmoma Resources	Company Name	Cimarex Energy
Address:	310 West Wall Ste 415	Address:	600 N Mainfield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.lung@coterra.com
Client Name	Merchbank Limited 5000 17th St		

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other

Project Name:		Merchant: LIVESTOCK '19 State Com 1H		Turn Around	
Project Number	1143	☐ Routine	☒ Rush		
Project Location	Lee Co, NM	Due Date	48 Hours		
Sampler's Name	AT	TAT starts the day received by the lab if received by 4:30pm			
PO #:					
SAMPLE RECEIPT					
Received Inact:	Temp Blank:	Yes	No	Mel Ice	Yes ☒ No ☐
	Yes ☒ No ☐	Thermometer ID:	1143		
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	20		
Sample Custody Seals	Yes ☒ No ☐	N/A			
Total Containers:		Temperature Reading	3.2		
		Corrected Temperature:	3.1		

ANALYSIS REQUEST										Preservative Codes			
Pres. Code													
Parameters													
	BTEX 8021B									None	NO	DI Water	H ₂ O
	8015M (GRO + DRO + MRO)									Cool	Cool	MeOH	Me
	Chloride 300 0									HCL	HC	HNO ₃	HN
										H ₂ SO ₄	H ₂	NaOH	Na
										H ₃ PO ₄	HP		
										NaHSO ₄	NABIS		
										Na ₂ O ₃	NaSO ₃		
										Zn Acetate	+NaOH	Zn	
										HOLD			

[illegible]

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		10/10/22	2		
3		1509	4		
5			6		

Work Order No: 20138

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Project Manager	Ashlon Thielke	Bill to (if different)	Laci Lung
Company Name:	Carmona Resources	Company Name	Cimarex Energy
Address:	310 West Wall Ste 415	Address:	600 N Mainfield St Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP:	Midland TX 79701
Phone:	432-813-5347	Email:	laci.lung@coterra.com
Project Name	Merchant 1, Merchant 2, Merchant 3, Merchant 4		

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 ☐

Project Number		1143		☐ Routine ☒ Rush		Turn Around	
Project Location		Lea Co., NM		Due Date		48 Hours	
Sampler's Name		AT		TAT starts the day received by the lab if received by 4:30pm			
PO #							
SAMPLE RECEIPT		Temp Blank		Yes ☒ No ☐		Well Ice	
Received Intact		Yes ☒ No ☐		Thermometer ID		☒ Yes ☐ No	
Cooler Custody Seals:		Yes No ☒ N/A ☒		Correction Factor			
Sample Custody Seals		Yes No ☒ N/A ☒		Temperature Reading			
Total Containers:				Corrected Temperature:			
Parameters							
BTX 8021B							
8015M (GRO + DRO + MRO)							
Chloride 300 0							
ANALYSIS REQUEST							
Preservative Codes							
None		NO		DI Water		H ₂ O	
Cool		Cool		MeOH		Me	
HCL		HC		HNO ₃		HN	
H ₂ SO ₄		H ₂		NaOH		Na	
H ₃ PO ₄		HP					
NaHSO ₄		NABIS					
Na ₂ S ₂ O ₃		NaSO ₃					
Zn Acetate		+NaOH		Zn			
NaOH+Acetic Acid		0.1M					

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH								Sample Comments	
BH-2 (15)	#####		X		Grab/	1	X	X	X							HOLD
BH-2 (30)	#####		X		Grab/	1	X	X	X							HOLD
BH-2 (35)	#####		X		Grab/	1	X	X	X							HOLD
BH-2 (40)	#####		X		Grab/	1	X	X	X							HOLD
BH-3 (0-2')	#####		X		Grab/	1	X	X	X							
BH-3 (4')	#####		X		Grab/	1	X	X	X							
BH-3 (6')	#####		X		Grab/	1	X	X	X							
BH-3 (8')	#####		X		Grab/	1	X	X	X							
BH-3 (10')	#####		X		Grab/	1	X	X	X							
BH-3 (15')	#####		X		Grab/	1	X	X	X							

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		10/10/22	2		
3		1509	4		
5			6		

Chain of Custody

Work Order No: 20138

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Project Manager	Ashton Thielke	Bill to (if different)	Laci Lugo
Company Name:	Carmona Resources	Company Name	Cimarex Energy
Address:	310 West Wall Ste 415	Address:	600 N Warrenfield St, Suite 600
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland TX 79701
Phone:	432-813-5347	Email:	laci.lugo@cohera.com

Work Order Comments	
Program UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund
State of Project:	
Reporting Level II	☐ Level III ☐ PST/UST ☐ FRPP ☐ Level IV ☐
Deliverables EDD	☐ ADAPT ☐ Other

Project Name	Merchant Livestock 19 State Com 1H	Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes					
Project Number	1143	Due Date	48 Hours													None NO	DI Water H ₂ O			
Project Location	Lea Co, NM	TAT starts the day received by the lab if received by 4:30pm																Cool Cool	MeOH Me	
Sampler's Name	AT																	HCL HC	HNO ₃ HN	
PO #																		H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes No	Wet Ice	Yes No	Parameters										H ₃ PO ₄ HP				
Received Intact	Yes No	Thermometer ID	BTX 8021B																NaHSO ₄ NABIS	
Cooler Custody Seals	Yes No	Correction Factor	TPH 8015M (GRO + DRO + MRO)																Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes No	Temperature Reading	Chloride 300 0																Zn Acetate+NaOH Zn	
Total Containers		Corrected Temperature																	NaOH+Ascorbic Acid SANC	
Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont											Sample Comments			
BH-3 (30)	#####		X		Grab/	1	X	X	X								HOLD			
BH-3 (35)	#####		X		Grab/	1	X	X	X								HOLD			
BH-3 (40)	#####		X		Grab/	1	X	X	X								HOLD			
BH-4 (0-2)	#####		X		Grab/	1	X	X	X								HOLD			
BH-4 (4)	#####		X		Grab/	1	X	X	X								HOLD			
BH-4 (6)	#####		X		Grab/	1	X	X	X								HOLD			
BH-4 (15)	#####		X		Grab/	1	X	X	X								HOLD			
BH-4 (20)	#####		X		Grab/	1	X	X	X								HOLD			

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		10/10/22			2
		ISO7			4
					6

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-20138-1

SDG Number: Lea Co, NM

Login Number: 20138

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: Michael Collier
H & R Enterprises
5120 W Kansas St
Hobbs, New Mexico 88242
Generated 1/24/2023 2:22:58 PM Revision 1

JOB DESCRIPTION

Merchant Livestock 19 ST Com 1H

JOB NUMBER

890-3815-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Generated
1/24/2023 2:22:58 PM
Revision 1

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Laboratory Job ID: 890-3815-1

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Definitions/Glossary

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

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
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)
TNTC	Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Job ID: 890-3815-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3815-1

REVISION

The report being provided is a revision of the original report sent on 1/13/2023. The report (revision 1) is being revised due to Per client request, change sample IDs BH-4.

Report revision history

Receipt

The samples were received on 1/10/2023 11:50 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 4.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH-4 0-1' (890-3815-1), BH-4 2' (890-3815-2), BH-4 3' (890-3815-3), BH-4 4' (890-3815-4), BH-4 5' (890-3815-5), BH-4 10' (890-3815-6), BH-4 15' (890-3815-7), BH-4 20' (890-3815-8), BH-4 25' (890-3815-9), BH-4 30' (890-3815-10), BH-4 35' (890-3815-11), BH-4 40' (890-3815-12), BH-4 45' (890-3815-13), BH-4 50' (890-3815-14) and BH-4 55' (890-3815-15).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43731 and analytical batch 880-43697 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-4 0-1' (890-3815-1) and BH-4 2' (890-3815-2). 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 880-43699 and analytical batch 880-43692 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43764 and analytical batch 880-43870 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: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 0-1'

Lab Sample ID: 890-3815-1

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.251		0.0402		mg/Kg		01/11/23 10:48	01/12/23 02:14	20
Toluene	0.189		0.0402		mg/Kg		01/11/23 10:48	01/12/23 02:14	20
Ethylbenzene	0.559		0.0402		mg/Kg		01/11/23 10:48	01/12/23 02:14	20
m-Xylene & p-Xylene	1.72		0.0805		mg/Kg		01/11/23 10:48	01/12/23 02:14	20
o-Xylene	0.875		0.0402		mg/Kg		01/11/23 10:48	01/12/23 02:14	20
Xylenes, Total	2.60		0.0805		mg/Kg		01/11/23 10:48	01/12/23 02:14	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	245	S1+	70 - 130	01/11/23 10:48	01/12/23 02:14	20
1,4-Difluorobenzene (Surr)	94		70 - 130	01/11/23 10:48	01/12/23 02:14	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.59		0.0805		mg/Kg			01/12/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1910		49.9		mg/Kg			01/11/23 17:26	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	202		49.9		mg/Kg		01/11/23 08:24	01/11/23 14:17	1
Diesel Range Organics (Over C10-C28)	1710		49.9		mg/Kg		01/11/23 08:24	01/11/23 14:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/23 08:24	01/11/23 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	01/11/23 08:24	01/11/23 14:17	1
o-Terphenyl	105		70 - 130	01/11/23 08:24	01/11/23 14:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246	F1	4.96		mg/Kg			01/13/23 02:32	1

Client Sample ID: BH-4 2'

Lab Sample ID: 890-3815-2

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.262		0.0404		mg/Kg		01/11/23 10:48	01/12/23 02:35	20
Toluene	0.136		0.0404		mg/Kg		01/11/23 10:48	01/12/23 02:35	20
Ethylbenzene	0.419		0.0404		mg/Kg		01/11/23 10:48	01/12/23 02:35	20
m-Xylene & p-Xylene	1.24		0.0808		mg/Kg		01/11/23 10:48	01/12/23 02:35	20
o-Xylene	0.724		0.0404		mg/Kg		01/11/23 10:48	01/12/23 02:35	20
Xylenes, Total	1.96		0.0808		mg/Kg		01/11/23 10:48	01/12/23 02:35	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	194	S1+	70 - 130	01/11/23 10:48	01/12/23 02:35	20

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 2'

Lab Sample ID: 890-3815-2

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	01/11/23 10:48	01/12/23 02:35	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	2.78		0.0808		mg/Kg			01/12/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1860		50.0		mg/Kg			01/11/23 17:26	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	289		50.0		mg/Kg		01/11/23 08:24	01/11/23 14:40	1
Diesel Range Organics (Over C10-C28)	1570		50.0		mg/Kg		01/11/23 08:24	01/11/23 14:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				01/11/23 08:24	01/11/23 14:40	1
o-Terphenyl	106		70 - 130				01/11/23 08:24	01/11/23 14:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		5.00		mg/Kg			01/13/23 02:46	1

Client Sample ID: BH-4 3'

Lab Sample ID: 890-3815-3

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		01/11/23 10:48	01/11/23 23:31	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		01/11/23 10:48	01/11/23 23:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/11/23 23:31	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		01/11/23 10:48	01/11/23 23:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/11/23 23:31	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		01/11/23 10:48	01/11/23 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/11/23 10:48	01/11/23 23:31	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/11/23 10:48	01/11/23 23:31	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			01/12/23 13:07	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			01/11/23 17:26	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 3'

Lab Sample ID: 890-3815-3

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 3

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		01/11/23 08:24	01/11/23 15:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/23 08:24	01/11/23 15:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/23 08:24	01/11/23 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				01/11/23 08:24	01/11/23 15:02	1
o-Terphenyl	92		70 - 130				01/11/23 08:24	01/11/23 15:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.4		4.99		mg/Kg			01/13/23 02:51	1

Client Sample ID: BH-4 4'

Lab Sample ID: 890-3815-4

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 4

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		01/11/23 10:48	01/11/23 23:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/11/23 23:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/11/23 23:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/11/23 10:48	01/11/23 23:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/11/23 23:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/11/23 10:48	01/11/23 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				01/11/23 10:48	01/11/23 23:51	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/11/23 10:48	01/11/23 23:51	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			01/12/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/12/23 14:41	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	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 15:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 15:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				01/11/23 08:24	01/11/23 15:48	1
o-Terphenyl	96		70 - 130				01/11/23 08:24	01/11/23 15:48	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 4'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Sample Depth: 4

Lab Sample ID: 890-3815-4

Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.6		5.05		mg/Kg			01/13/23 02:56	1

Client Sample ID: BH-4 5'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Sample Depth: 5

Lab Sample ID: 890-3815-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/12/23 00:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/12/23 00:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/12/23 00:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/11/23 10:48	01/12/23 00:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/12/23 00:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/11/23 10:48	01/12/23 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/11/23 10:48	01/12/23 00:12	1
1,4-Difluorobenzene (Surr)	93		70 - 130				01/11/23 10:48	01/12/23 00:12	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			01/12/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/12/23 14:41	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	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 16:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 16:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				01/11/23 08:24	01/11/23 16:11	1
o-Terphenyl	95		70 - 130				01/11/23 08:24	01/11/23 16:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.2		4.95		mg/Kg			01/13/23 03:00	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 10'

Lab Sample ID: 890-3815-6

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 10

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		01/11/23 10:48	01/12/23 00:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/11/23 10:48	01/12/23 00:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/11/23 10:48	01/12/23 00:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/11/23 10:48	01/12/23 00:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/11/23 10:48	01/12/23 00:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/11/23 10:48	01/12/23 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/11/23 10:48	01/12/23 00:32	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/11/23 10:48	01/12/23 00:32	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			01/12/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/12/23 14:41	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	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 16:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 16:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	01/11/23 08:24	01/11/23 16:37	1
o-Terphenyl	102		70 - 130	01/11/23 08:24	01/11/23 16:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.9		5.01		mg/Kg			01/13/23 03:15	1

Client Sample ID: BH-4 15'

Lab Sample ID: 890-3815-7

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 15

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		01/11/23 10:48	01/12/23 00:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/12/23 00:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/12/23 00:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/11/23 10:48	01/12/23 00:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/12/23 00:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/11/23 10:48	01/12/23 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/11/23 10:48	01/12/23 00:52	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 15'

Lab Sample ID: 890-3815-7

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	76		70 - 130	01/11/23 10:48	01/12/23 00:52	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			01/12/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/12/23 14:41	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	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 17:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 17:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				01/11/23 08:24	01/11/23 17:00	1
o-Terphenyl	81		70 - 130				01/11/23 08:24	01/11/23 17:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.0		4.98		mg/Kg			01/13/23 03:19	1

Client Sample ID: BH-4 20'

Lab Sample ID: 890-3815-8

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 20

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		01/11/23 10:48	01/12/23 01:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/12/23 01:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/12/23 01:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/11/23 10:48	01/12/23 01:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/12/23 01:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/11/23 10:48	01/12/23 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/11/23 10:48	01/12/23 01:13	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/11/23 10:48	01/12/23 01:13	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			01/12/23 13:07	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			01/12/23 14:41	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 20'

Lab Sample ID: 890-3815-8

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 20

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		01/11/23 08:24	01/11/23 17:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/23 08:24	01/11/23 17:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/23 08:24	01/11/23 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				01/11/23 08:24	01/11/23 17:22	1
o-Terphenyl	81		70 - 130				01/11/23 08:24	01/11/23 17:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7		5.00		mg/Kg			01/13/23 03:24	1

Client Sample ID: BH-4 25'

Lab Sample ID: 890-3815-9

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Sample Depth: 25

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		01/11/23 10:48	01/12/23 01:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/12/23 01:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/12/23 01:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/11/23 10:48	01/12/23 01:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/23 10:48	01/12/23 01:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/11/23 10:48	01/12/23 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				01/11/23 10:48	01/12/23 01:33	1
1,4-Difluorobenzene (Surr)	89		70 - 130				01/11/23 10:48	01/12/23 01:33	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			01/12/23 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/12/23 14:41	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	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 17:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 17:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 08:24	01/11/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				01/11/23 08:24	01/11/23 17:44	1
o-Terphenyl	95		70 - 130				01/11/23 08:24	01/11/23 17:44	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 25'
Date Collected: 01/10/23 00:00
Date Received: 01/10/23 11:50
Sample Depth: 25

Lab Sample ID: 890-3815-9
Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.2		4.95		mg/Kg			01/13/23 03:29	1

Surrogate Summary

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

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)
890-3815-1	BH-4 0-1'	245 S1+	94
890-3815-2	BH-4 2'	194 S1+	93
890-3815-3	BH-4 3'	96	87
890-3815-3 MS	BH-4 3'	94	101
890-3815-3 MSD	BH-4 3'	98	83
890-3815-4	BH-4 4'	101	91
890-3815-5	BH-4 5'	102	93
890-3815-6	BH-4 10'	96	81
890-3815-7	BH-4 15'	92	76
890-3815-8	BH-4 20'	96	92
890-3815-9	BH-4 25'	97	89
LCS 880-43731/1-A	Lab Control Sample	89	100
LCSD 880-43731/2-A	Lab Control Sample Dup	90	103
MB 880-43675/5-A	Method Blank	86	94
MB 880-43731/5-A	Method Blank	81	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 (70-130)	OTPH1 (70-130)
890-3815-1	BH-4 0-1'	111	105
890-3815-2	BH-4 2'	110	106
890-3815-3	BH-4 3'	107	92
890-3815-4	BH-4 4'	110	96
890-3815-5	BH-4 5'	109	95
890-3815-6	BH-4 10'	116	102
890-3815-7	BH-4 15'	85	81
890-3815-8	BH-4 20'	84	81
890-3815-9	BH-4 25'	107	95
LCS 880-43699/2-A	Lab Control Sample	105	100
LCSD 880-43699/3-A	Lab Control Sample Dup	120	109
MB 880-43699/1-A	Method Blank	164 S1+	153 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43675/5-A

Matrix: Solid

Analysis Batch: 43697

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/23 15:19	01/11/23 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/23 15:19	01/11/23 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/23 15:19	01/11/23 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/23 15:19	01/11/23 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/23 15:19	01/11/23 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/23 15:19	01/11/23 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/10/23 15:19	01/11/23 11:10	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/10/23 15:19	01/11/23 11:10	1

Lab Sample ID: MB 880-43731/5-A

Matrix: Solid

Analysis Batch: 43697

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/11/23 23:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/11/23 23:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/11/23 23:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/11/23 10:48	01/11/23 23:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/23 10:48	01/11/23 23:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/11/23 10:48	01/11/23 23:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	01/11/23 10:48	01/11/23 23:09	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/11/23 10:48	01/11/23 23:09	1

Lab Sample ID: LCS 880-43731/1-A

Matrix: Solid

Analysis Batch: 43697

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09649		mg/Kg		96	70 - 130
Toluene	0.100	0.09278		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.07810		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1623		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08971		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-43731/2-A

Matrix: Solid

Analysis Batch: 43697

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09588		mg/Kg		96	70 - 130	1	35

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QC Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

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

Lab Sample ID: LCSD 880-43731/2-A

Matrix: Solid

Analysis Batch: 43697

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09162		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.07745		mg/Kg		77	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1600		mg/Kg		80	70 - 130	1	35
o-Xylene	0.100	0.08864		mg/Kg		89	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-3815-3 MS

Matrix: Solid

Analysis Batch: 43697

Client Sample ID: BH-4 3'

Prep Type: Total/NA

Prep Batch: 43731

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.0996	0.08390		mg/Kg		84	70 - 130
Toluene	<0.00199	U F1	0.0996	0.07789		mg/Kg		78	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.06955		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1409		mg/Kg		71	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08293		mg/Kg		83	70 - 130

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

Lab Sample ID: 890-3815-3 MSD

Matrix: Solid

Analysis Batch: 43697

Client Sample ID: BH-4 3'

Prep Type: Total/NA

Prep Batch: 43731

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.101	0.05430	F1 F2	mg/Kg		54	70 - 130	43	35
Toluene	<0.00199	U F1	0.101	0.06989	F1	mg/Kg		69	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.101	0.07491		mg/Kg		74	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1311	F1	mg/Kg		65	70 - 130	7	35
o-Xylene	<0.00199	U	0.101	0.07783		mg/Kg		77	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

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

Lab Sample ID: MB 880-43699/1-A

Matrix: Solid

Analysis Batch: 43692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43699

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		01/11/23 08:04	01/11/23 08:18	1

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QC Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

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

Lab Sample ID: MB 880-43699/1-A

Matrix: Solid

Analysis Batch: 43692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43699

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		01/11/23 08:04	01/11/23 08:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 08:04	01/11/23 08:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130				01/11/23 08:04	01/11/23 08:18	1
o-Terphenyl	153	S1+	70 - 130				01/11/23 08:04	01/11/23 08:18	1

Lab Sample ID: LCS 880-43699/2-A

Matrix: Solid

Analysis Batch: 43692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	923.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.1		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 130				
o-Terphenyl	100		70 - 130				

Lab Sample ID: LCSD 880-43699/3-A

Matrix: Solid

Analysis Batch: 43692

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	988.6		mg/Kg		99	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	999.2		mg/Kg		100	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	109		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43764/1-A

Matrix: Solid

Analysis Batch: 43870

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			01/13/23 02:17	1

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QC Sample Results

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-43764/2-A

Matrix: Solid

Analysis Batch: 43870

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.9		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-43764/3-A

Matrix: Solid

Analysis Batch: 43870

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	273.2		mg/Kg		109	90 - 110	10	20

Lab Sample ID: 890-3815-1 MS

Matrix: Solid

Analysis Batch: 43870

Client Sample ID: BH-4 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	246	F1	248	514.2		mg/Kg		108	90 - 110

Lab Sample ID: 890-3815-1 MSD

Matrix: Solid

Analysis Batch: 43870

Client Sample ID: BH-4 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	246	F1	248	553.9	F1	mg/Kg		124	90 - 110	7	20

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QC Association Summary

Client: H & R Enterprises

Job ID: 890-3815-1

Project/Site: Merchant Livestock 19 ST Com 1H

GC VOA

Prep Batch: 43675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43675/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 43697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-1	BH-4 0-1'	Total/NA	Solid	8021B	43731
890-3815-2	BH-4 2'	Total/NA	Solid	8021B	43731
890-3815-3	BH-4 3'	Total/NA	Solid	8021B	43731
890-3815-4	BH-4 4'	Total/NA	Solid	8021B	43731
890-3815-5	BH-4 5'	Total/NA	Solid	8021B	43731
890-3815-6	BH-4 10'	Total/NA	Solid	8021B	43731
890-3815-7	BH-4 15'	Total/NA	Solid	8021B	43731
890-3815-8	BH-4 20'	Total/NA	Solid	8021B	43731
890-3815-9	BH-4 25'	Total/NA	Solid	8021B	43731
MB 880-43675/5-A	Method Blank	Total/NA	Solid	8021B	43675
MB 880-43731/5-A	Method Blank	Total/NA	Solid	8021B	43731
LCS 880-43731/1-A	Lab Control Sample	Total/NA	Solid	8021B	43731
LCSD 880-43731/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43731
890-3815-3 MS	BH-4 3'	Total/NA	Solid	8021B	43731
890-3815-3 MSD	BH-4 3'	Total/NA	Solid	8021B	43731

Prep Batch: 43731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-1	BH-4 0-1'	Total/NA	Solid	5035	
890-3815-2	BH-4 2'	Total/NA	Solid	5035	
890-3815-3	BH-4 3'	Total/NA	Solid	5035	
890-3815-4	BH-4 4'	Total/NA	Solid	5035	
890-3815-5	BH-4 5'	Total/NA	Solid	5035	
890-3815-6	BH-4 10'	Total/NA	Solid	5035	
890-3815-7	BH-4 15'	Total/NA	Solid	5035	
890-3815-8	BH-4 20'	Total/NA	Solid	5035	
890-3815-9	BH-4 25'	Total/NA	Solid	5035	
MB 880-43731/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43731/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43731/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3815-3 MS	BH-4 3'	Total/NA	Solid	5035	
890-3815-3 MSD	BH-4 3'	Total/NA	Solid	5035	

Analysis Batch: 43814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-1	BH-4 0-1'	Total/NA	Solid	Total BTEX	
890-3815-2	BH-4 2'	Total/NA	Solid	Total BTEX	
890-3815-3	BH-4 3'	Total/NA	Solid	Total BTEX	
890-3815-4	BH-4 4'	Total/NA	Solid	Total BTEX	
890-3815-5	BH-4 5'	Total/NA	Solid	Total BTEX	
890-3815-6	BH-4 10'	Total/NA	Solid	Total BTEX	
890-3815-7	BH-4 15'	Total/NA	Solid	Total BTEX	
890-3815-8	BH-4 20'	Total/NA	Solid	Total BTEX	
890-3815-9	BH-4 25'	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: H & R Enterprises

Job ID: 890-3815-1

Project/Site: Merchant Livestock 19 ST Com 1H

GC Semi VOA

Analysis Batch: 43692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-1	BH-4 0-1'	Total/NA	Solid	8015B NM	43699
890-3815-2	BH-4 2'	Total/NA	Solid	8015B NM	43699
890-3815-3	BH-4 3'	Total/NA	Solid	8015B NM	43699
890-3815-4	BH-4 4'	Total/NA	Solid	8015B NM	43699
890-3815-5	BH-4 5 '	Total/NA	Solid	8015B NM	43699
890-3815-6	BH-4 10'	Total/NA	Solid	8015B NM	43699
890-3815-7	BH-4 15'	Total/NA	Solid	8015B NM	43699
890-3815-8	BH-4 20'	Total/NA	Solid	8015B NM	43699
890-3815-9	BH-4 25'	Total/NA	Solid	8015B NM	43699
MB 880-43699/1-A	Method Blank	Total/NA	Solid	8015B NM	43699
LCS 880-43699/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43699
LCSD 880-43699/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43699

Prep Batch: 43699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-1	BH-4 0-1'	Total/NA	Solid	8015NM Prep	
890-3815-2	BH-4 2'	Total/NA	Solid	8015NM Prep	
890-3815-3	BH-4 3'	Total/NA	Solid	8015NM Prep	
890-3815-4	BH-4 4'	Total/NA	Solid	8015NM Prep	
890-3815-5	BH-4 5 '	Total/NA	Solid	8015NM Prep	
890-3815-6	BH-4 10'	Total/NA	Solid	8015NM Prep	
890-3815-7	BH-4 15'	Total/NA	Solid	8015NM Prep	
890-3815-8	BH-4 20'	Total/NA	Solid	8015NM Prep	
890-3815-9	BH-4 25'	Total/NA	Solid	8015NM Prep	
MB 880-43699/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43699/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43699/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-1	BH-4 0-1'	Total/NA	Solid	8015 NM	
890-3815-2	BH-4 2'	Total/NA	Solid	8015 NM	
890-3815-3	BH-4 3'	Total/NA	Solid	8015 NM	
890-3815-4	BH-4 4'	Total/NA	Solid	8015 NM	
890-3815-5	BH-4 5 '	Total/NA	Solid	8015 NM	
890-3815-6	BH-4 10'	Total/NA	Solid	8015 NM	
890-3815-7	BH-4 15'	Total/NA	Solid	8015 NM	
890-3815-8	BH-4 20'	Total/NA	Solid	8015 NM	
890-3815-9	BH-4 25'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-1	BH-4 0-1'	Soluble	Solid	DI Leach	
890-3815-2	BH-4 2'	Soluble	Solid	DI Leach	
890-3815-3	BH-4 3'	Soluble	Solid	DI Leach	
890-3815-4	BH-4 4'	Soluble	Solid	DI Leach	
890-3815-5	BH-4 5 '	Soluble	Solid	DI Leach	
890-3815-6	BH-4 10'	Soluble	Solid	DI Leach	
890-3815-7	BH-4 15'	Soluble	Solid	DI Leach	

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QC Association Summary

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

HPLC/IC (Continued)

Leach Batch: 43764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-8	BH-4 20'	Soluble	Solid	DI Leach	
890-3815-9	BH-4 25'	Soluble	Solid	DI Leach	
MB 880-43764/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43764/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43764/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3815-1 MS	BH-4 0-1'	Soluble	Solid	DI Leach	
890-3815-1 MSD	BH-4 0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 43870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3815-1	BH-4 0-1'	Soluble	Solid	300.0	43764
890-3815-2	BH-4 2'	Soluble	Solid	300.0	43764
890-3815-3	BH-4 3'	Soluble	Solid	300.0	43764
890-3815-4	BH-4 4'	Soluble	Solid	300.0	43764
890-3815-5	BH-4 5'	Soluble	Solid	300.0	43764
890-3815-6	BH-4 10'	Soluble	Solid	300.0	43764
890-3815-7	BH-4 15'	Soluble	Solid	300.0	43764
890-3815-8	BH-4 20'	Soluble	Solid	300.0	43764
890-3815-9	BH-4 25'	Soluble	Solid	300.0	43764
MB 880-43764/1-A	Method Blank	Soluble	Solid	300.0	43764
LCS 880-43764/2-A	Lab Control Sample	Soluble	Solid	300.0	43764
LCSD 880-43764/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43764
890-3815-1 MS	BH-4 0-1'	Soluble	Solid	300.0	43764
890-3815-1 MSD	BH-4 0-1'	Soluble	Solid	300.0	43764

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Lab Chronicle

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 0-1'

Lab Sample ID: 890-3815-1

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

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	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43697	01/12/23 02:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43774	01/11/23 17:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 14:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 02:32	CH	EET MID

Client Sample ID: BH-4 2'

Lab Sample ID: 890-3815-2

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43697	01/12/23 02:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43774	01/11/23 17:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 14:40	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 02:46	CH	EET MID

Client Sample ID: BH-4 3'

Lab Sample ID: 890-3815-3

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

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	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43697	01/11/23 23:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43774	01/11/23 17:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 15:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 02:51	CH	EET MID

Client Sample ID: BH-4 4'

Lab Sample ID: 890-3815-4

Date Collected: 01/10/23 00:00

Matrix: Solid

Date Received: 01/10/23 11:50

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	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43697	01/11/23 23:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 4'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Lab Sample ID: 890-3815-4

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			43774	01/12/23 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 15:48	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 02:56	CH	EET MID

Client Sample ID: BH-4 5'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Lab Sample ID: 890-3815-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43697	01/12/23 00:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43774	01/12/23 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 16:11	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 03:00	CH	EET MID

Client Sample ID: BH-4 10'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Lab Sample ID: 890-3815-6

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			4.97 g	5 mL	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43697	01/12/23 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43774	01/12/23 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 16:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 03:15	CH	EET MID

Client Sample ID: BH-4 15'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Lab Sample ID: 890-3815-7

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			4.99 g	5 mL	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43697	01/12/23 00:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43774	01/12/23 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 17:00	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

Client Sample ID: BH-4 15'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Lab Sample ID: 890-3815-7

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			5.02 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 03:19	CH	EET MID

Client Sample ID: BH-4 20'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Lab Sample ID: 890-3815-8

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			5.02 g	5 mL	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43697	01/12/23 01:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43774	01/12/23 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 17:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 03:24	CH	EET MID

Client Sample ID: BH-4 25'

Date Collected: 01/10/23 00:00

Date Received: 01/10/23 11:50

Lab Sample ID: 890-3815-9

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			5.03 g	5 mL	43731	01/11/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43697	01/12/23 01:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43814	01/12/23 13:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43774	01/12/23 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43699	01/11/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43692	01/11/23 17:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	43764	01/11/23 15:11	KS	EET MID
Soluble	Analysis	300.0		1			43870	01/13/23 03:29	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

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	T104704400-22-25	06-30-23
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: H & R Enterprises
Project/Site: Merchant Livestock 19 ST Com 1H

Job ID: 890-3815-1

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: H & R Enterprises

Job ID: 890-3815-1

Project/Site: Merchant Livestock 19 ST Com 1H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3815-1	BH-4 0-1'	Solid	01/10/23 00:00	01/10/23 11:50	0 - 1
890-3815-2	BH-4 2'	Solid	01/10/23 00:00	01/10/23 11:50	2
890-3815-3	BH-4 3'	Solid	01/10/23 00:00	01/10/23 11:50	3
890-3815-4	BH-4 4'	Solid	01/10/23 00:00	01/10/23 11:50	4
890-3815-5	BH-4 5'	Solid	01/10/23 00:00	01/10/23 11:50	5
890-3815-6	BH-4 10'	Solid	01/10/23 00:00	01/10/23 11:50	10
890-3815-7	BH-4 15'	Solid	01/10/23 00:00	01/10/23 11:50	15
890-3815-8	BH-4 20'	Solid	01/10/23 00:00	01/10/23 11:50	20
890-3815-9	BH-4 25'	Solid	01/10/23 00:00	01/10/23 11:50	25



Environment Testing

Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Page 1 of 2

Project Manager:	M. Collier	Bill to: (if different)	
Company Name:	HTR Enterprises	Company Name:	CIMAREX ENERGY
Address:		Address:	ATTN: LACI LUIE
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	WRENNANT LUSTACK	Turn Around	3 Days
Project Number:	19 ST. COM 1H	☐ Routine ☒ Rush	Des. Code
Project Location:		Due Date:	1/13/23
Sampler's Name:	R. Bell	TAT starts the day received by the lab, if received by 4:30pm	
P.O. #:		Wet Ice:	☒ Yes ☐ No
SAMPLE RECEIPT	Temp Blank:	Thermometer ID:	100.2
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:	
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:	4.4
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:	4.2
Total Containers:			



880-3815 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
BH-1 0-1'	Soil	1/10/23		0-1'	G	1	BTEX		None: NO	DI Water: H ₂ O
BH-1 2'				2'		1	TPH		Cool: Cool	MeOH: Me
BH-1 3'				3'		1	Chlorides		HCL: HC	HNO ₃ : HN
BH-1 4'				4'		1			H ₂ SO ₄ : H ₂	NaOH: Na
BH-1 5'				5'		1			H ₃ PO ₄ : HP	
BH-1 10'				10'		1			NaHSO ₄ : NABIS	
BH-1 15'				15'		1			Na ₂ S ₂ O ₅ : NaSO ₃	
BH-1 20'				20'		1			Zn Acetate+NaOH: Zn	
BH-1 25'				25'		1			NaOH+Ascorbic Acid: SAPC	
BH-1 30'				30'		1				

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1.0.23.11.50			

Revision DATE 08/23/2020 Rev. 20202



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	Cinarc Energy
Address:		Address:	Attn: Laci Luig
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Work Order Comments			
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐		
State of Project:			
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐		
Deliverables:	EDD ☐ ADAPT ☐ Other:		

Project Name:	Merchant Lifestock	Turn Around		ANALYSIS REQUEST																Preservative Codes				
Project Number:	195T, Cor 1H	☐ Routine ☐ Rush		Pres. Code																None: NO	DI Water: H ₂ O			
Project Location:		Due Date:																		Cool: Cool	MeOH: Me			
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																		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			
Samples 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: SASC			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments	
3H1 Hold	Soil	1/10/23		35'	G	1	X	TPH	X	BTEX	X	Chlorides												
				40'																				
				45'																				
				50'																				
				55'																				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2			
		4			
		6			

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-3815-1

SDG Number:

Login Number: 3815

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-3815-1

SDG Number:

Login Number: 3815**List Number: 2****Creator: Teel, Brianna****List Source: Eurofins Midland****List Creation: 01/11/23 11:43 AM**

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 19, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: MERCHANT LIVESTOCK 19 STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/18/23 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 1 (5') (H230256-01)

BTEX 8021B		mg/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9	
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1	
Total BTEX	<0.350	0.350	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	164	82.2	200	2.43	
DRO >C10-C28*	24.0	10.0	01/18/2023	ND	159	79.7	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 2 (13') (H230256-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	164	82.2	200	2.43	
DRO >C10-C28*	31.4	10.0	01/18/2023	ND	159	79.7	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 3 (13') (H230256-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEx	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	164	82.2	200	2.43	
DRO >C10-C28*	35.0	10.0	01/18/2023	ND	159	79.7	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 4 (13') (H230256-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	164	82.2	200	2.43	
DRO >C10-C28*	21.1	10.0	01/18/2023	ND	159	79.7	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 5 (13') (H230256-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	164	82.2	200	2.43	
DRO >C10-C28*	31.5	10.0	01/18/2023	ND	159	79.7	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 6 (13') (H230256-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	164	82.2	200	2.43	
DRO >C10-C28*	15.7	10.0	01/18/2023	ND	159	79.7	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 1 (5') (H230256-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	164	82.2	200	2.43	
DRO >C10-C28*	47.9	10.0	01/18/2023	ND	159	79.7	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 2 (5') (H230256-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	0.098	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	0.873	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	0.971	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.3	10.0	01/18/2023	ND	164	82.2	200	2.43	
DRO >C10-C28*	396	10.0	01/18/2023	ND	159	79.7	200	2.58	
EXT DRO >C28-C36	86.2	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 3 (5') (H230256-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	165	82.7	200	2.22	
DRO >C10-C28*	<10.0	10.0	01/18/2023	ND	184	92.0	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 4 (8') (H230256-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/18/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	165	82.7	200	2.22	
DRO >C10-C28*	19.7	10.0	01/18/2023	ND	184	92.0	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 5 (13') (H230256-11)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	1.87	93.5	2.00	15.9		
Toluene*	<0.100	0.100	01/19/2023	ND	1.93	96.5	2.00	11.1		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	1.87	93.6	2.00	11.5		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	5.62	93.7	6.00	12.1		
Total BTEX	<0.350	0.350	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2023	ND	165	82.7	200	2.22	
DRO >C10-C28*	21.3	10.0	01/18/2023	ND	184	92.0	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/18/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 6 (13') (H230256-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	2.13	107	2.00	1.70		
Toluene*	<0.100	0.100	01/18/2023	ND	2.15	108	2.00	1.66		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.12	106	2.00	1.96		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.55	109	6.00	2.45		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	433	10.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	84.9	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 7 (13') (H230256-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	2.13	107	2.00	1.70		
Toluene*	<0.100	0.100	01/18/2023	ND	2.15	108	2.00	1.66		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.12	106	2.00	1.96		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.55	109	6.00	2.45		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	202	10.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	36.8	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 8 (13') (H230256-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	2.13	107	2.00	1.70		
Toluene*	<0.100	0.100	01/18/2023	ND	2.15	108	2.00	1.66		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.12	106	2.00	1.96		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.55	109	6.00	2.45		
Total BTEX	<0.350	0.350	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	12.8	10.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 9 (13') (H230256-15)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2023	ND	2.13	107	2.00	1.70	
Toluene*	<0.100	0.100	01/18/2023	ND	2.15	108	2.00	1.66	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.12	106	2.00	1.96	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.55	109	6.00	2.45	
Total BTEX	<0.350	0.350	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.1	10.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	964	10.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	166	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 10 (13') (H230256-16)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/18/2023	ND	2.13	107	2.00	1.70	
Toluene*	2.87	0.400	01/18/2023	ND	2.15	108	2.00	1.66	
Ethylbenzene*	4.23	0.200	01/18/2023	ND	2.12	106	2.00	1.96	
Total Xylenes*	23.5	0.600	01/18/2023	ND	6.55	109	6.00	2.45	
Total BTEX	30.6	1.40	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 185 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	583	50.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	4780	50.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	796	50.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 193 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 11 (13') (H230256-17)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/18/2023	ND	2.13	107	2.00	1.70	
Toluene*	7.30	0.400	01/18/2023	ND	2.15	108	2.00	1.66	
Ethylbenzene*	8.54	0.200	01/18/2023	ND	2.12	106	2.00	1.96	
Total Xylenes*	41.7	0.600	01/18/2023	ND	6.55	109	6.00	2.45	
Total BTEX	57.5	1.40	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 211 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	859	50.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	5250	50.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	780	50.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 208 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 12 (13') (H230256-18)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/18/2023	ND	2.13	107	2.00	1.70	
Toluene*	24.5	2.00	01/18/2023	ND	2.15	108	2.00	1.66	
Ethylbenzene*	20.3	1.00	01/18/2023	ND	2.12	106	2.00	1.96	
Total Xylenes*	96.7	3.00	01/18/2023	ND	6.55	109	6.00	2.45	
Total BTEX	141	7.00	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2270	50.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	9080	50.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	1400	50.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 443 % 48.2-134

Surrogate: 1-Chlorooctadecane 225 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 13 (13') (H230256-19)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/18/2023	ND	2.13	107	2.00	1.70	
Toluene*	4.73	1.00	01/18/2023	ND	2.15	108	2.00	1.66	
Ethylbenzene*	5.64	0.500	01/18/2023	ND	2.12	106	2.00	1.96	
Total Xylenes*	29.1	1.50	01/18/2023	ND	6.55	109	6.00	2.45	
Total BTEX	39.5	3.50	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	614	50.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	6150	50.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	1100	50.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 234 % 48.2-134

Surrogate: 1-Chlorooctadecane 188 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/19/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 14 (13') (H230256-20)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/18/2023	ND	2.13	107	2.00	1.70	
Toluene*	5.39	1.00	01/18/2023	ND	2.15	108	2.00	1.66	
Ethylbenzene*	5.81	0.500	01/18/2023	ND	2.12	106	2.00	1.96	
Total Xylenes*	29.3	1.50	01/18/2023	ND	6.55	109	6.00	2.45	
Total BTEX	40.5	3.50	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	439	50.0	01/19/2023	ND	217	108	200	6.36	
DRO >C10-C28*	4510	50.0	01/19/2023	ND	202	101	200	1.37	
EXT DRO >C28-C36	837	50.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H236256

Page 1 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luij
Company Name:	Carmona Resources	Company Name:	Cinmarx Energy
Address:	310 West Wall Ste. 415	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luij@cinmarx.com

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

Project Name:	Merchant Livestock 19 State Com 1H	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:	1143	Due Date:	24 Hours		
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	CRM/FV				
PO #:					
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	ANALYSIS REQUEST	Preservative Codes
CS-1 (5')	1/18/2023		X		GC	1	X	X
CS-2 (13')	1/18/2023		X		GC	1	X	X
CS-3 (13')	1/18/2023		X		GC	1	X	X
CS-4 (13')	1/18/2023		X		GC	1	X	X
CS-5 (13')	1/18/2023		X		GC	1	X	X
CS-6 (13')	1/18/2023		X		GC	1	X	X
SW-1 (5')	1/18/2023		X		GC	1	X	X
SW-2 (5')	1/18/2023		X		GC	1	X	X
SW-3 (5')	1/18/2023		X		GC	1	X	X
SW-4 (8')	1/18/2023		X		GC	1	X	X

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Carmona Resources</u>	<u>Ashton Thielke</u>	<u>1-18-23 1300</u>			

Chain of Custody

Work Order No:

HA30256

Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste. 415	Address:	600 N Mainfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luig@coterra.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Deepfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDO ☐ ADAPT ☐ Other:	

Project Name:	Merchant Livestock 19 State Com 1H	Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number:	1143	Due Date:	24 Hours												None: NO	DI Water: H ₂ O
Project Location:	Lea Co. NM														Cool: Cool	MeOH: Me
Sampler's Name:	CRM/FV														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	Parameters										Sample Comments	
SW-5 (13)	1/18/2023		X		GC	1	X	X	X									
SW-6 (13)	1/18/2023		X		GC	1	X	X	X									
SW-7 (13)	1/18/2023		X		GC	1	X	X	X									
SW-8 (13)	1/18/2023		X		GC	1	X	X	X									
SW-9 (13)	1/18/2023		X		GC	1	X	X	X									
SW-10 (13)	1/18/2023		X		GC	1	X	X	X									
SW-11 (13)	1/18/2023		X		GC	1	X	X	X									
SW-12 (13)	1/18/2023		X		GC	1	X	X	X									
SW-13 (13)	1/18/2023		X		GC	1	X	X	X									
SW-14 (13)	1/18/2023		X		C	1	X	X	X									

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-18-23 1300			



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 20, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: MERCHANT LIVESTOCK 19 STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/19/23 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 7 (13') (H230284-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38	
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824	
Total BTX	<0.300	0.300	01/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/20/2023	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	47.1	10.0	01/19/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 8 (13') (H230284-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	44.3	10.0	01/19/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 9 (13') (H230284-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38	
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824	
Total BTX	<0.300	0.300	01/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	19.4	10.0	01/19/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 10 (13') (H230284-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	61.3	10.0	01/19/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 6 (13') (H230284-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 7 (13') (H230284-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 9 (13') (H230284-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 15 (13') (H230284-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	15.1	10.0	01/19/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 16 (13') (H230284-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 17 (13') (H230284-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2023	ND	2.06	103	2.00	1.38	
Toluene*	<0.050	0.050	01/20/2023	ND	2.22	111	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.17	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.72	112	6.00	0.824	
Total BTEX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 18 (13') (H230284-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38	
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824	
Total BTEx	<0.300	0.300	01/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 19 (13') (H230284-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	188	94.0	200	10.1		
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	191	95.6	200	5.70		
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND						

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 20 (13') (H230284-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 21 (13') (H230284-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	14.4	10.0	01/20/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 22 (13') (H230284-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38		
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824		
Total BTEX	<0.300	0.300	01/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 23 (13') (H230284-16)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38	
Toluene*	0.738	0.050	01/19/2023	ND	2.22	111	2.00	1.19	
Ethylbenzene*	1.34	0.050	01/19/2023	ND	2.17	108	2.00	1.48	
Total Xylenes*	7.26	0.150	01/19/2023	ND	6.72	112	6.00	0.824	
Total BTEX	9.34	0.300	01/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 213 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	150	10.0	01/20/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	1450	10.0	01/20/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	233	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 162 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 24 (13') (H230284-17)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/19/2023	ND	2.06	103	2.00	1.38	
Toluene*	15.2	1.00	01/19/2023	ND	2.22	111	2.00	1.19	
Ethylbenzene*	18.3	1.00	01/19/2023	ND	2.17	108	2.00	1.48	
Total Xylenes*	93.9	3.00	01/19/2023	ND	6.72	112	6.00	0.824	
Total BTEX	127	6.00	01/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2170	50.0	01/20/2023	ND	188	94.0	200	10.1	
DRO >C10-C28*	9810	50.0	01/20/2023	ND	191	95.6	200	5.70	
EXT DRO >C28-C36	1630	50.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 399 % 48.2-134

Surrogate: 1-Chlorooctadecane 467 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 11930284-1

Page 1 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste. 415	Address:	600 N Marlenfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

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

Project Name:	Merchant Livestock 19 State Com 1H	Turn Around	☐ Routine ☒ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes		
Project Number:	1143	Due Date:	24 Hours													None: NO	DI Water: H ₂ O	
Project Location:	Lea Co, NM															Cool: Cool	MeOH: Me	
Sampler's Name:	AT															HCL: HC	HNO ₃ : HN	
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐	Parameters										HOLD		
Received Intact:	Yes ☒ No ☐	Thermometer ID:																
Cooler Custody Seals:	Yes ☒ No ☐ M/A ☐	Correction Factor:																
Sample Custody Seals:	Yes ☒ No ☐ M/A ☐	Temperature Reading:																
Total Containers:		Corrected Temperature:																
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
CS-7 (13')		1/19/2023		X		Comp	1	X	X	X	X						1	
CS-8 (13')		1/19/2023		X		Comp	1	X	X	X	X						2	
CS-9 (13')		1/19/2023		X		Comp	1	X	X	X	X						3	
CS-10 (13')		1/19/2023		X		Comp	1	X	X	X	X						4	
SW-6 (13')		1/19/2023		X		Comp	1	X	X	X	X						5	
SW-7 (13')		1/19/2023		X		Comp	1	X	X	X	X						6	
SW-9 (13')		1/19/2023		X		Comp	1	X	X	X	X						7	
SW-15 (13')		1/19/2023		X		Comp	1	X	X	X	X						8	
SW-16 (13')		1/19/2023		X		Comp	1	X	X	X	X						9	
SW-17 (13')		1/19/2023		X		Comp	1	X	X	X	X						10	

Please send results to cmohring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-19-23 1518			

Chain of Custody

Work Order No: Fix 50284

Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste. 415	Address:	600 N Marientfield St. Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	

Project Name: Merchant Livestock 19 State Com 1H				Turn Around		ANALYSIS REQUEST													Preservative Codes										
Project Number:	1143	☐ Routine	☒ Rush	Project Location	Lea Co, NM	Due Date:	24 Hours <th>Pres. Code</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>None: NO</td> <td>DI Water: H₂O</td>	Pres. Code													None: NO	DI Water: H ₂ O							
Sampler's Name:	AT	TAT starts the day received by the lab, if received by 4:30pm																							Cool: Cool	MeOH: Me			
PO #:																								HCL: HC	HNO ₃ : HN				
SAMPLE RECEIPT				Temp Blank:	Yes ☒ No	Wet Ice:	Yes ☒ No																					H ₂ SO ₄ : H ₂	NaOH: Na
Received Intact:	Yes ☒ No	Thermometer ID:	Yes ☒ No																							H ₃ PO ₄ : HP			
Cooler Custody Seals:	Yes ☒ No	Correction Factor:	Yes ☒ No																							NaHSO ₄ : NABIS			
Sample Custody Seals:	Yes ☒ No	Temperature Reading:	Yes ☒ No																							Na ₂ S ₂ O ₃ : NaSO ₃			
Total Containers:		Corrected Temperature:																								Zn Acetate+NaOH: Zn			
																										NaOH+Ascorbic Acid: SAPC			
Sample Identification				Date	Time	Soil	Water	Grab/Comp	# of Cont														Sample Comments						
SW-18 (13)	1/19/2023		X	Comp	1	X	X	X															11						
SW-19 (13)	1/19/2023		X	Comp	1	X	X	X															12						
SW-20 (13)	1/19/2023		X	Comp	1	X	X	X															13						
SW-21 (13)	1/19/2023		X	Comp	1	X	X	X															14						
SW-22 (13)	1/19/2023		X	Comp	1	X	X	X															15						
SW-23 (13)	1/19/2023		X	Comp	1	X	X	X															16						
SW-24 (13)	1/19/2023		X	Comp	1	X	X	X															17						

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		1-19-23 1518	2		
3			4		
5			6		



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 20, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: MERCHANT LIVESTOCK 19 STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/19/23 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	MERCHANT LIVESTOCK 19 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	1143	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: H - 1 (0-1') (H230283-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2023	ND	2.06	103	2.00	1.38	
Toluene*	<0.050	0.050	01/19/2023	ND	2.22	111	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2023	ND	2.17	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	01/19/2023	ND	6.72	112	6.00	0.824	
Total BTX	<0.300	0.300	01/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	202	101	200	3.62	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	204	102	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 14230283

Page 1 of 1

Page 4 of 4

[illegible]

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

CONDITIONS

Action 182033

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 182033
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	2/20/2023